

ORTHOLITE® OPEN CELL FOAM
TECHNOLOGIES





www.ortholite.com

GLOBAL SCALE. LOCAL PRODUCTION.

For more than 25 years, we've been vertically integrated, wholly owned and delivering innovative solutions to meet the ever-changing challenges of our brand partners all over the world. Our global team of 3000+ has a presence on every continent where footwear is made, so every project is local: increasing efficiency, adaptability, and consistency while reducing cost, lead time, and stress. Because we're not just here to help you make more comfortable shoes, we're here to deliver the most profitable, sustainable, and enjoyable experience in the industry.



 **Ortholite®**
comfort foam insoles

Comfort and Performance Driven by Innovation

As a vertically integrated U.S. company with Higg FEM verified facilities around the globe, we collaborate with our brand partners to create and produce custom insole formulations that deliver unrivaled comfort, performance and sustainability. Here's how OrthoLite® innovation continues to set the standard:



Recycled Content

All OrthoLite® formulations utilize recycled rubber and/or production waste foam ranging from 5% to 98% to support our end goal of Zero Waste.



Long-Term Cushioning

OrthoLite® foam compresses less than 5% over the lifetime of the product—so the cushioning, fit, comfort and performance virtually never change.



Lightweight

OrthoLite® foams are extremely lightweight—enhancing performance with day-in, day-out airy comfort.



Moisture Management

The unique open-cell structure of OrthoLite® foam creates a moisture management system, helping to move moisture away and provide a cooler, drier environment in any application.



High-Level Breathability

OrthoLite® foam with open-cell PU technology is breathable, allowing air to circulate around the foot, keeping the surrounding environment cooler and drier.



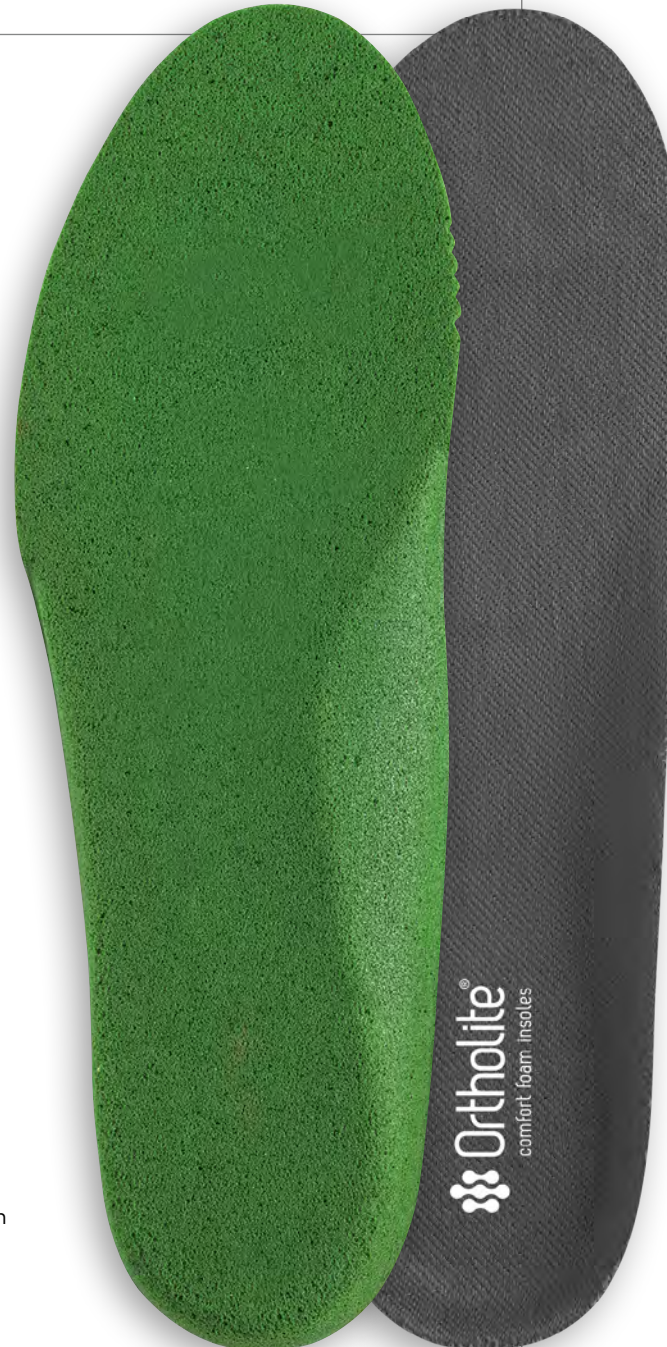
Washable

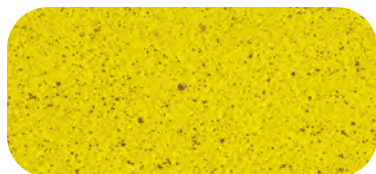
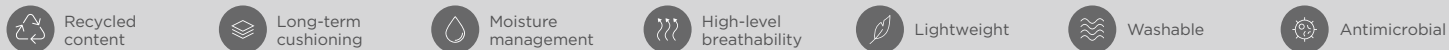
OrthoLite® insoles are machine washable, coming out like virtually new every time while maintaining all of the comfort and performance benefits after washing. Gentle wash, air dry.



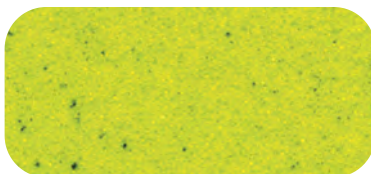
Antimicrobial

The antimicrobial treatment is infused and cross-linked into every OrthoLite® foam and continuously resists microbe growth to provide built-in protection from fungus, bacteria and odor.

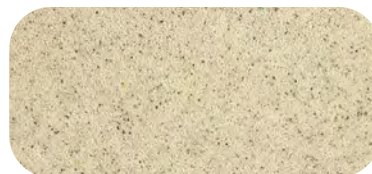




Yellow
13-0858 TPX



Lime Green
14-0452 TPX



Seedpearl Hybrid
12-0703 TPX



Persimmon Orange
16-1356 TPX



Green
16-5932 TPX



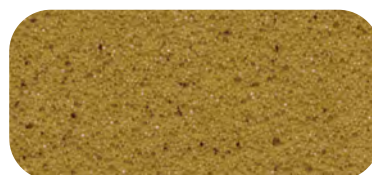
Antique Bronze
17-1028 TPX



Apricot Orange
17-1353 TPX



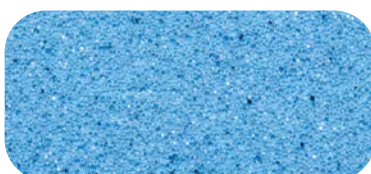
Amazon
18-6024 TPX



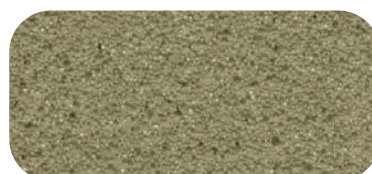
Brown Sugar
17-1134 TPX



Burnt Sienna
17-1544 TPX



Air Blue
16-4134 TPX



Fossil
17-0909 TPX



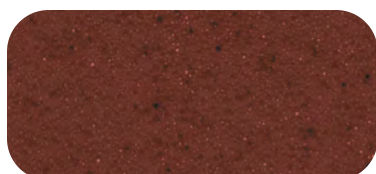
Orange Rust
18-1447 TPX



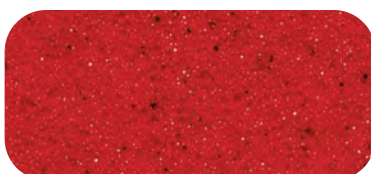
Shocking Pink
17-2127 TPX



Neutral Grey
17-4402 TPX



Russet Brown
19-1338 TPX



Red
19-1764 TPX



Grey
17-1501 TPX

Not all OrthoLite® colors are available in all foam formulations. Certain colors may be subject to upcharge.

OrthoLite® Original formulations set the standard for comfort and performance.

From our earliest days, we've utilized recycled waste rubber ranging from 5% to 98% in every insole—leading the charge toward more sustainable products. OrthoLite® insoles can be customized to meet your exact specifications by combining formulations, densities, colors and mold designs, giving you a competitive advantage and unique comfort and performance story.

.11 Density

A formula created for footwear brands that require a high performance, low cost solution.



5-10 Asker C*



15 Asker C*



25 Asker C*

.13 Density

The original formulation that established OrthoLite® as the industry leader.



5-10 Asker C*



15 Asker C*



25 Asker C*



35 Asker C*

.15 Density

A firmer version of our original formulation that provides added stability and support.



45 Asker C*

Thickness:
2mm-20mm

Sheet Size:
110cm x 200cm
110cm x 170cm
110cm x 147cm

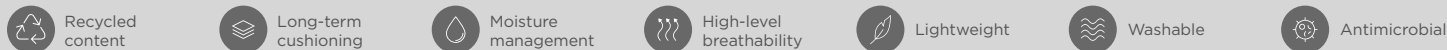
Colors Available:
Variety of OrthoLite® colors depending on the formulation
*Hardness tolerance +/- 4 Asker C

Hybrid

ORTHOLITE® HYBRID™ TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS AVAILABLE IN MOST FORMULATIONS.



OrthoLite® operates with a sustainable mindset to help mitigate our environmental impact and protect the planet.

We embrace the critical importance of accountability and providing full transparency through globally recognized third party resources that demonstrate our ongoing progress and leadership in environmental sustainability in both product and process. OrthoLite® has undergone extensive third-party testing and analysis and we are proud to have implemented and attained the following third-party tests, certifications, and validations.



Cascale is the global nonprofit alliance empowering collaboration to drive equitable and restorative business practices in the consumer goods industry. Spanning over 300 retailers, brands, manufacturers, governments, academics, and NGO/nonprofit affiliates around the globe, Cascale is united by a singular vision: To catalyze impact at scale and give back more than we take to the planet and its people. Cascale owns and develops the Higg Index and a unified strategy for industry transformation.



Established in 2012, the Higg Index is a sophisticated tool that seeks to provide footwear and apparel manufacturers with the opportunity to work towards a cleaner, healthier future for people and the planet.



OrthoLite® has earned GRS certification - a voluntary product standard for tracking and verifying the content of recycled materials in a final product - for all insoles with a minimum of 20% recycled material.



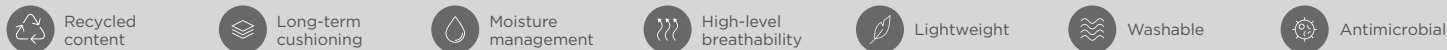
RCS certification is a voluntary, international standard intended for any product containing at least 5% recycled material.



United States Department of Agriculture's (USDA's) BioPreferred® program awards a certificate to products containing bio-based material. OrthoLite® Eco Impressions™ test result indicates that its bio-based content is 46%. OrthoLite® Eco Plush™ test result indicates that its bio-based content is 25%.



OrthoLite® BETA Lab testing validates the percentages of recycled rubber and bio-oil in every product.



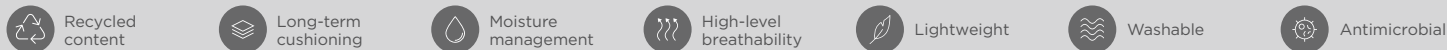
Technology	Density	Hardness	Recycled Rubber	Hybrid*	Bio-Oil	Total Hybrid Content
OrthoLite® Originals	0.11, 0.13, 0.15D	Varies by density. See technology sheet.	5%	15%	0%	20%
OrthoLite® X25™	0.12D	20 C	5%	15%	0%	20%
OrthoLite® X35™	0.145D	25 C	5%	15%	0%	20%
OrthoLite® X40™	0.16D	25 C, 35 C	5%	15%	0%	20%
OrthoLite® X55™	0.16D	25 C	5%	15%	0%	20%
OrthoLite® R&R™	0.16D	15 C	5%	15%	0%	20%
OrthoLite® Imperial™	0.22D	25 C	5%	15%	0%	20%
	0.30D (Plus)	25 C, 30 C, 40 C	5%	15%	0%	20%
OrthoLite® Lazy	0.15D	75 F	5%	15%	0%	20%
OrthoLite® Ultra	0.085D	5-10 C, 15 C, 25 C	5%	15%	0%	20%
OrthoLite® EcoLT™	0.11D	15 C, 25 C	5%	15%	6%	26%
	0.13D	25 C, 35 C	5%	15%	6%	26%
OrthoLite® Eco™	0.13D	15 C, 25 C, 35 C	5%	15%	12%	32%
OrthoLite® EcoX40™	0.185D	25 C	5%	15%	12%	32%
OrthoLite® EcoPlush™	0.15D	26 C	5%	15%	25%	45%
OrthoLite® HybridPlus-Recycled™	0.12D	25 C	7%	43%	0%	50%
OrthoLite® HybridPlus-Bio™	0.14D	24 C	7%	43%	7%	57%
OrthoLite® EcoImpressions™	0.15D	70-80 F	5%	15%	50%	70%

ORTHOLITE® HYBRID TECHNOLOGIES:

OrthoLite® Bio-Oil Formulations replace petroleum with oil made from castor beans—a non-food plant. With this single decision, you can reduce your brand's resource consumption and carbon footprint.

***OrthoLite® Hybrid™** is a proprietary formulation that uniquely blends 5% recycled rubber with a range of 15%-43% postproduction waste foam offering uncompromised comfort, performance and less waste into landfills.

OrthoLite® Recycled™ is a result of our expanding commitment to the creation of more recycled technologies that close the loop on postproduction waste material and get us closer to the end goal of Zero Waste.



Hybrid Comfort & Performance Technology

OrthoLite® Hybrid™ is a proprietary formulation that can be used on its own or blended into other OrthoLite® formulations to upgrade the percentage of recycled content. The patented design* uniquely blends 5% recycled rubber and 15% production waste foam to achieve a minimum of 20% recycled-content—for uncompromised comfort and performance.



PRODUCT SUMMARY

We're always pushing our innovation further—in how our products perform, how they look, and how they are made. OrthoLite® Hybrid™ is a true game-changing technology, whether it's used on its own or combined with other formulations to up the recycled content. Combining 5% recycled rubber and 15% open-cell waste foam with virgin open-cell foam, it goes the distance and retains all the comfort and performance attributes OrthoLite® is known for and consumers expect using less petroleum and less energy, while adding less to landfills.

APPLICATION

Ideal for a wide range of applications, OrthoLite® Hybrid™ provides cushioning and performance critical in insole, strobel and upper applications. The OrthoLite® Hybrid™ formulation creates a cooler, drier environment inside all categories of footwear, so consumers can feel and perform their best.

Formulation Hybrid	MOQ Standard	20% Total Eco Content	15% Production Waste Foam 5% Recycled Rubber
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Finished Goods:

OrthoLite® Hybrid™ is available exclusively as a finished molded or die-cut product. Not available in sheets.

Zero Waste Initiative:

All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Color Available:

Seedpearl Hybrid 12-0703 TPX

*Patented Design:

U.S. Patent D941,568
U.S. Patent D991,659

MESH OI™

Completed testing and approved



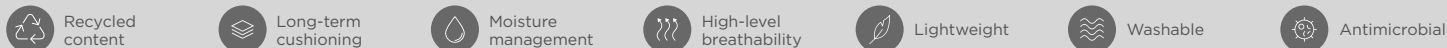
Hybrid

ORTHOLITE® HYBRID™ TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS AVAILABLE IN MOST FORMULATIONS.

OrthoLite® HybridPlus-Recycled™



Closing the Loop on Waste

OrthoLite® HybridPlus-Recycled™ is a patented design* and the result of our expanding commitment to the creation of more environmentally conscious footwear technologies that close the loop on production waste material and get us all closer to the end goal of Zero Waste.



Through the creation of our dedicated in-house recycling facility, we continue to invest in the development of product solutions that optimize our supply chain from end to end by capturing and repurposing all waste material, the result is OrthoLite® Hybrid™ and Recycled technologies.

PRODUCT SUMMARY

Meeting the increasing demand for more environmentally conscious products, OrthoLite® HybridPlus-Recycled™ provides the unprecedented ability to elevate the recycled- content of your insoles to **50%**. Uniquely blending **7%** recycled rubber powder and **43%** recycled PU foam to achieve a total **50%** recycled content—using less petroleum and less energy, while adding less to landfills. And delivers all the comfort your consumers expect with the features they demand.

APPLICATION

Ideal for a wide range of applications, OrthoLite® HybridPlus-Recycled™ delivers comfort and performance critical in insole, strobels and upper applications. The OrthoLite® HybridPlus-Recycled™ formulation creates a cooler, drier environment inside all categories of footwear, so consumers can feel and perform their best.

50%

Total
Eco
Content

43% Production Waste Foam

7% Recycled Rubber

Formulation

HybridPlus-Recycled

MOQ

Standard

Density:

0.12g/cm³

Hardness:

25 +/-4

Asker C

Thickness:

2mm-20mm

Thickness

tolerance

+/- 0.3mm

Finished Goods:

OrthoLite® HybridPlus-Recycled™ is available exclusively as a finished molded or die-cut product. Not available in sheets

Zero Waste Initiative:

All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Colors Available:

Mint Green
11-4805 TPX

*Patented Design:

U.S. Patent
D941,568

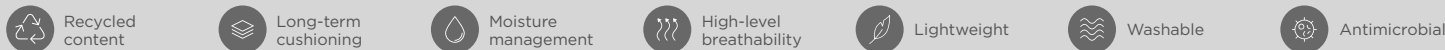


OrthoLite®
HybridPlus-Recycled™

Hybrid

ORTHOLITE® HYBRID™
TECHNOLOGY

OrthoLite® HybridPlus-Recycled™ Technology is available in the Mint Green color 11-4805 TPX. Hybrid is a recycled technology that reuses postproduction waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.



Hybrid Technology Formulated with Plant Based Bio-Oil

OrthoLite® HybridPlus-Bio™, a patented design*, expands our range of environmentally conscious formulations to further reduce the use of petroleum and gets us all closer to the end goal of Zero Waste.



Through the creation of our dedicated in-house labs and recycling facility, we continue to invest in the development of product solutions that optimize our supply chain from end to end by expanding the use of bio-based oils derived from castor and capturing and repurposing our production waste material, the result is OrthoLite® HybridPlus-Bio™.

PRODUCT SUMMARY

Meeting the increasing demand for more environmentally responsible products, OrthoLite® HybridPlus-Bio™ uniquely blends **7%** recycled rubber and **7%** bio-oil derived from castor with **43%** recycled production waste foam that combined, utilizes less petroleum and less energy, while adding less to landfills. OrthoLite® HybridPlus-Bio™ formulation creates a cooler, drier environment inside all categories of footwear, so consumers can feel and perform their best.

APPLICATION

Ideal for a wide range of applications, OrthoLite® HybridPlus-Bio™ delivers environmentally conscious comfort and performance critical in insole, strobrel and upper applications, and delivers all the comfort and performance underfoot that your consumers expect from OrthoLite®.

Formulation HybridPlus-Bio	MOQ Standard	57% Total Eco Content	7% Bio-Oil 43% Production Waste Foam 7% Recycled Rubber
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Density:
0.14g/cm³

Hardness:
24 +/-4
Asker C

Thickness:
2mm-20mm
Thickness tolerance
+/- 0.3mm

Finished Goods:

OrthoLite® HybridPlus-Bio™ is available exclusively as a finished molded or die-cut product. Not available in sheets.

Zero Waste Initiative:

All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Colors Available:

Mint Green
11-4805 TPX

***Patented Design:**
U.S. Patent D941,568



Closing the Loop on Waste

OrthoLite® Recycled™ is a result of our expanding commitment to the creation of more sustainable technologies that close the loop on postproduction waste material and get us closer to the end goal of Zero Waste.

Through the creation of a new R&D center we have invested in the continued development of more sustainable solutions that optimize our supply chain from end to end by capturing and repurposing all waste material, the result is OrthoLite® Hybrid and Recycled technologies.

PRODUCT SUMMARY

Responding to the increasing demand for more environmentally responsible products, OrthoLite® Recycled™ provides our brand partners the unprecedented ability to increase the eco-content in their insoles with our recycled postproduction waste material making it easier than ever to achieve the highest eco-standards and sustainability goals.

APPLICATION

OrthoLite® Recycled™ delivers the perfect fully recycled solution for eco-friendly support, stability and under foot comfort in either a single density or dual-layer option. In a dual-layer application where a firmer base is required with softer foam on top, OrthoLite® Recycled™ delivers immediate step-in comfort while retaining all of the key attributes that OrthoLite™ is known for. OrthoLite® Recycled™ is also ideal for Strobel layers and upper applications.

98%

Total
Eco
Content

98% Postproduction
Waste Material

2% Water-based
Binder

Formulation

Recycled

MOQ

Standard

Density:

0.19-0.27g/cm³

Hardness:

29-43 Asker C

Thickness:

2mm-20mm

*Thickness
tolerance
+/- 0.3mm

Finished Goods:

OrthoLite® Recycled is available exclusively as a finished molded or die-cut product. Not available in sheets.

Contact your OrthoLite® representative regarding molded specifications.

Zero Waste Initiative:

All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Colors Available:

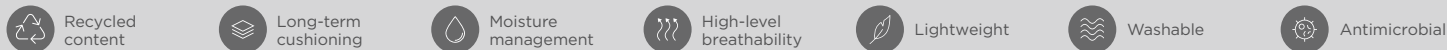
OrthoLite® Colors*

**Color will vary due to the use of recycled postproduction waste material.*



MESH 01

Completed testing and approved



Eco-friendly Performance from Plant-based Bio-Oil

OrthoLite® Bio-Oil formulations reduce the need for petroleum-derived ingredients by using an eco-friendly, proprietary castor oil and recycled rubber formulation. For over 20 years, OrthoLite® has led the industry in the innovation, development and production of environmentally friendly insoles. Starting with our very first formulation, our open-cell technology has included 5% recycled shoe rubber, which has kept thousands of tons of waste material out of landfills. OrthoLite® Bio-Oil formulations replace petroleum with oil made from castor beans—a non-food plant. With this single decision, you can up your eco content to reduce your brand's resource consumption and carbon footprint.

OrthoLite® EcoLT™

Density & Hardness
.11D - 15 and 25 Asker C
.13D - 25 and 35 Asker C



11%
Total Eco
Content

- Combining 6% bio-oil content made from our proprietary castor oil formulation with the existing 5% recycled rubber content to deliver even more value in an eco-friendly formulation.
- Ideal for multiple eco-friendly applications where cushioning and performance are of the utmost importance including insole, strobrel, and upper applications.

OrthoLite® Eco™

Density & Hardness
0.13D - 15 Asker C,
25 Asker C,
35 Asker C

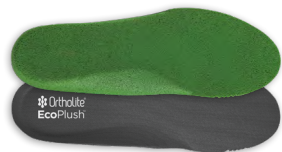


17%
Total Eco
Content

- Setting the standard as the first and original eco-friendly solution with our proprietary bio-based formulation.
- Replaces 12% of petroleum with our proprietary bio-oil formulation made from castor beans combined with the existing 5% recycled rubber content makes this eco-formulation a renewable resource that reduces the shoe's carbon footprint.

OrthoLite® EcoPlush™

Density & Hardness:
0.15D - 26 +/- 4 Asker C

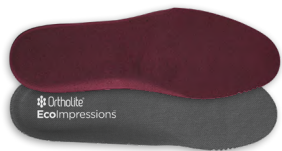


30%
Total Eco
Content

- Provides a unique, plush "ride" that delivers extreme cushioning in all types of applications. Formulated with 25% bio-oil from castor beans and 5% recycled rubber.
- No other eco-friendly PU foam offers the same combination of performance benefits—cushioning, breathability, moisture management, and antimicrobial function.

OrthoLite® EcoImpressions™

Density & Hardness:
0.15D - 70-80 Asker F



55%
Total Eco
Content

- Slow recovery foam delivers a customized fit by taking on the shape of the foot over time. Formulated with 50% bio-oil from castor beans and 5% recycled rubber.
- Best used as a top layer on firmer foams, to deliver a custom layer of support for the ultimate cushioning.

OrthoLite® HybridPlus-Bio™

Density & Hardness:
0.14D - 24 +/- 4 Asker C



57%
Total Eco
Content

- Delivers sustainable comfort and performance critical in insole, strobrel and upper applications. Formulated with 43% production waste foam, 7% bio-oil from castor beans and 7% recycled rubber.
- Creates a cooler, drier environment inside all categories of footwear, so consumers can feel and perform their best.



Eco Technology Formulated with Bio-Oil

OrthoLite® Eco LT™ brings innovative eco-upgrades to our original .11D and .13D formulations, replacing a portion of the petroleum with plant-derived bio-oil.

PRODUCT SUMMARY

Responding to the growing demand for more eco-friendly products, OrthoLite® expands our industry-leading range of environmentally friendly products with the introduction of OrthoLite® Eco LT™.

The exclusive formulation allows you to reduce your carbon footprint while expanding your range with more eco-friendly offerings. OrthoLite® Eco LT™ combines 6% bio-oil content made from our proprietary castor oil formulation with 5% recycled rubber content—delivering an eco-friendly foam with uncompromised comfort and performance.

APPLICATION

OrthoLite® Eco LT™ is ideal for a wide range of eco-friendly applications where cushioning and performance are critical—including insole, strobrel and upper applications. True to all OrthoLite® foams, it provides a cooler, drier, healthier environment inside the shoe, with long-lasting cushioning.

11%

Total Eco Content

6% Bio-Oil

5% Recycled Rubber

Formulation

Eco LT

MOQ

Standard

Density:

.11D

Hardness:

15 and 25 Asker C

*Hardness tolerance
+/- 4 Asker C

Thickness:

2mm-20mm

*Thickness tolerance
+/- 0.3mm

Sheet Size:

110cm x 200cm

110cm x 170cm

110cm x 147cm

Density:

.13D

Hardness:

25 and 35 Asker C

*Hardness tolerance
+/- 4 Asker C

Thickness:

2mm-20mm

*Thickness tolerance
+/- 0.3mm

Sheet Size:

110cm x 200cm

110cm x 170cm

110cm x 147cm

Colors Available:

OrthoLite® Colors

Seedpearl Hybrid 12-0703 TPX

Zero Waste Initiative:

All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Hybrid

ORTHOLITE® HYBRID™ TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS AVAILABLE IN MOST FORMULATIONS.

Eco Technology Formulated with 12% Bio-Oil

OrthoLite® Eco™ expands on our popular Eco LT™ formulation—more than doubling the bio-oil content to further reduce the use of petroleum.

PRODUCT SUMMARY

OrthoLite® Eco™ is the next evolution of our industry-leading range of environmentally friendly products—with an exclusive formulation made with 12% bio-oil content. By replacing a portion of the petroleum with plant-derived bio-oil sourced from castor beans, we're able to help you reduce your carbon footprint while providing your customers with the legendary comfort and performance of OrthoLite®.

APPLICATION

OrthoLite® Eco™ can be used in any footwear application where a more eco-friendly comfort and performance solution is wanted. This formulation is ideal for insoles, strobels and upper applications.

Formulation Eco	MOQ Standard	17% Total Eco Content	12% Bio-Oil 5% Recycled Rubber
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Density:

0.13g/cm³

Hardness:

15 +/-4 Asker C

25 +/-4 Asker C

35 +/-4 Asker C

Thickness:

2mm-20mm

Sheet Size:

110cm x 200cm

Colors Available:

Fairway 18-6320 TPX

Seedpearl Hybrid 12-0703 TPX

Zero Waste Initiative:

All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Hybrid

ORTHOLITE® HYBRID™ TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS AVAILABLE IN MOST FORMULATIONS.

Eco Technology Formulated with 25% Plant-based Bio-Oil

OrthoLite® Eco Plush™ elevates the eco content of our original plant-based formulation to meet the need for more sustainable footwear solutions and deliver all the comfort and performance benefits of OrthoLite® PU foam technology.

PRODUCT SUMMARY

OrthoLite® Eco Plush™ is the next evolution of our industry-leading range of environmentally friendly products—an exclusive formulation made with 25% plant-based bio-oil content. By replacing a portion of the petroleum with plant-derived bio-oil sourced from castor beans, we help to reduce our collective carbon footprint while continuing to deliver on our promise of more sustainable comfort and performance underfoot.

APPLICATION

OrthoLite® Eco Plush™ delivers a plush ride and can be used in any footwear application where a more sustainable comfort and performance solution is wanted. This formulation is ideal for insoles, strobels and upper applications.

30%

Total Eco Content

25% Bio-Oil

5% Recycled Rubber

Formulation
Eco Plush

MOQ
Standard

Density:
0.15g/cm³
Hardness:
26 +/-4 Asker C
Thickness:
2mm-20mm
Sheet Size:
110cm x 170cm

Colors Available:
Online Lime 17-0145 TPX
Seedpearl Hybrid 12-0703 TPX

Zero Waste Initiative:
All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



USDA Certified Biobased Product:
Certified 25% Biobased



OrthoLite®
EcoPlush™

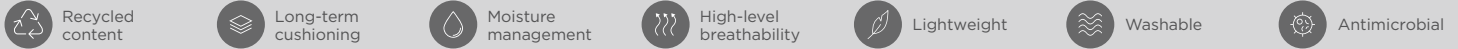
Hybrid

ORTHOLITE® HYBRID™ TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS AVAILABLE IN MOST FORMULATIONS.

OrthoLite® EcoImpressions™



Top-Layer Eco-Foam that Molds to the Foot

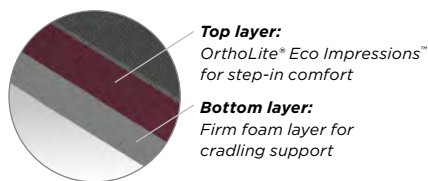
OrthoLite® Eco Impressions™ provides immediate step-in comfort and molds for a truly custom fit over time.

PRODUCT SUMMARY

OrthoLite® Eco Impressions™ makes an extremely comfortable first impression—and a lasting impression. Containing our highest percentage of bio-oil content, the exclusive formulation is specifically designed to mold to the shape of the foot over time for a truly custom fit.

APPLICATION

OrthoLite® Eco Impressions™ is best used as a top layer on a firmer OrthoLite® base that cradles and supports for ultimate cushioning. The formulation is also ideal as lining foam—giving the whole shoe a custom-feeling fit.



Formulation Eco Impressions	MOQ Standard	55% Total Eco Content	50% Bio-Oil 5% Recycled Rubber
--------------------------------	-----------------	-----------------------------	--------------------------------------

**Slow Recovery
Return Rate:**
10-20 Seconds

Density:
0.15g/cm³

Hardness:
70-80F

Thickness:
2mm-12mm

Sheet Size:
110cm x 170cm

Finished Goods:
Available in sheets
and die-cut.

Contact your OrthoLite®
representative regarding
molded specifications.

**Zero Waste
Initiative:**
All OrthoLite®
formulations
utilize recycled rubber
and/or production waste
foam to support our end
goal of Zero Waste.



Colors Available:
Tawny Port 19-1725 TPX
Seedpearl Hybrid
12-0703 TPX

**USDA Certified
Biobased Product:**
Certified 46% Biobased



Hybrid

ORTHOLITE® HYBRID™
TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS
AVAILABLE IN MOST FORMULATIONS.

Lightweight Comfort & Performance Insole Technology

OrthoLite® Ultra™ is designed to meet the ever-increasing demand for ultra-lightweight comfort in today's active lifestyle footwear.

PRODUCT SUMMARY

OrthoLite® Ultra™ is proprietary foam technology that was developed to specifically reduce weight without sacrificing the comfort and performance that active consumer's demand.

- Available in an ultra-cushy option with a hardness rating of 78-90 Asker F that delivers a customized, ultra-soft memory foam feel underfoot.

APPLICATION

Engineered to perform at optimal levels for kids and adults while on the field of play, at the gym or simply walking, OrthoLite® Ultra™ is ideal for both active lifestyle and sport. The formulation provides long-term cushioning and a cooler, drier, healthier environment inside the shoe. Beyond insoles, OrthoLite® Ultra™ can be used in strobrel applications, quarter panel linings, tongues, heel pads and collar foam.

5%

Total Eco Content

5% Recycled Rubber

Formulation
Ultra

MOQ
Standard

Density:
0.085g/cm³

Hardness:
5-10 +/-4 Asker C
15 +/-4 Asker C
25 +/-4 Asker C

Slow Recovery
78-90 Asker F

Thickness:
2mm-20mm

Sheet Size:
110cm x 147cm
110cm x 170cm
110cm x 200cm

Density:
0.095g/cm³

Hardness:
33 +/-4 Asker C

Thickness:
2mm-20mm

Sheet Size:
110cm x 147cm
110cm x 170cm
110cm x 200cm

Colors Available:
Red 19-1764 TPX
Green 16-5932 TPX
Antique Bronze 17-1028 TPX
Fossil 17-0909 TPX
Lime Green 14-0452 TPX
Burnt Sienna 17-1544 TPX
Yellow 13-0858 TPX
Lemon Chrome 13-0859 TPX
Seedpearl Hybrid 12-0703 TPX

Zero Waste Initiative:
All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Hybrid

ORTHOLITE® HYBRID™ TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS AVAILABLE IN MOST FORMULATIONS.

High-rebound Formulations with Customized Elasticity


OrthoLite® X Series is our range of performance formulations with the highest rebound, that let you dial in the perfect elasticity for your insole application.

PRODUCT SUMMARY

Responding to the growing demand for higher levels of rebound, OrthoLite® expands upon our game-changing options with customized elasticity offerings. The range allows you to pick the precise rebound for your needs—or create a Good/Better/Best offering for your consumers. It starts with OrthoLite® X40™, that set the industry standard for high rebound performance with an elasticity rating over 40%. OrthoLite® X35™ and OrthoLite® X25™ foams achieve elasticity ratings of 35 and 25 percent.

APPLICATION

The OrthoLite® X Series is ideal for footwear used in high-impact sports or minimalist footwear. Its high levels of cushioning in thinner layers of foam also make it a great fit for dress shoes.

Formulations X25, X35, X40	MOQ Standard	5% Total Eco Content	5% Recycled Rubber
OrthoLite® X25™ Density: 0.12g/cm³ Hardness: 20 +/-4 Asker C Resilience %: ≥25 Thickness: 2mm-20mm Sheet Size: 110cm x 200cm Color Available: Billiard 16-5427 TPX Seedpearl Hybrid 12-0703 TPX	OrthoLite® X35™ Density: 0.145g/cm³ Hardness: 25 +/-4 Asker C Resilience %: ≥35 Thickness: 2mm-20mm Sheet Size: 110cm x 200cm Color Available: Fossil 17-0909 TPX Seedpearl Hybrid 12-0703 TPX	OrthoLite® X40™ Density: 0.16g/cm³ Hardness: 25 +/-4 Asker C 35 +/-4 Asker C Resilience %: ≥40 Thickness: 2mm-20mm Sheet Size: 110cm x 170cm Colors Available: Red 19-1764TPX Billiard 16-5427 TPX Fossil 17-0909 TPX Castlerock 18-0201 TPX True Blue 19-4057 TPX Seedpearl Hybrid 12-0703 TPX	
Zero Waste Initiative: All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste. 			



Hybrid

ORTHOLITE® HYBRID™
TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS
AVAILABLE IN MOST FORMULATIONS.

Another Pinnacle OrthoLite® Formulation for Maximum Rebound & Energy Return

OrthoLite® raised the bar to new heights with the launch of X40™ that set the industry standard for high-rebound comfort and performance. Now OrthoLite® takes rebound to incredible new heights with even more rebound and energy return.

PRODUCT SUMMARY

With an unprecedented 55% resiliency, OrthoLite® X55™ foam provides the ultimate wearing experience—with awe-inspiring step-in comfort and all-day energy return that sets a new standard in comfort and performance. The feeling is lively, with the immediate perception of energy, making it ideal for all footwear categories including casual and dress footwear. When used in athletic footwear, OrthoLite® X55™ gives the feeling of propulsion during high-energy sports while providing superb stability and support. Simply by upgrading into X55™, our brand partners can market products with the most energy return ever developed and experienced.

APPLICATION

OrthoLite® X55™ is engineered to enhance every wearing occasion—including casual, dress, outdoor and athletic footwear. X55™ resiliency and energy return help contribute to less foot fatigue and provides unrivaled stability, comfort and performance under all conditions from on the court, to out on the trails, or on the way to the office.

5%

Total Eco Content

5% Recycled Rubber

Formulation X55

MOQ Standard

Density:
0.16g/cm³

Hardness:
25 +/-4 Asker C

Resilience:
≥55%

Thickness:
2mm-20mm

Sheet Size:
110cm x 147cm
110cm x 170cm

Zero Waste Initiative:
All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Color Available:
Red 19-1764 TPX
Seedpearl Hybrid 12-0703 TPX

MESH 01.
Completed testing and approved

Hybrid

ORTHOLITE® HYBRID™ TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS AVAILABLE IN MOST FORMULATIONS.

High-density, Ultra-cushioning Foam with Superior Rebound

OrthoLite® Imperial™ provides outstanding cushioning even in thin applications—making it the perfect choice for a wide range of uses.

PRODUCT SUMMARY

OrthoLite® Imperial™ foam brings ultra thin cushioning to new levels. Its .22 density offers high levels of cushioning and rebound in thin applications while maintaining all of the OrthoLite® comfort and performance attributes of breathability, moisture management and antimicrobial functions.

APPLICATION

OrthoLite® Imperial™ is ideal for low profile footwear and dress shoe applications requiring a lightweight, high density and very thin cushioning and support layer. This formulation works well for full insoles, strobels layers and heel pads.

Formulation
Imperial

MOQ
Standard

5% Total Eco Content

5% Recycled Rubber

Density:
0.22g/cm³

Hardness:
25 +/-4 Asker C

Thickness:
2mm-20mm

Sheet Size:
110cm x 100cm

Finished Goods:

Available in sheets and die-cut.

Contact your OrthoLite® representative regarding molded specifications.

Zero Waste Initiative:

All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Colors Available:

Blue Grass 18-5128 TPX
Seedpearl Hybrid 12-0703 TPX



Hybrid

ORTHOLITE® HYBRID™ TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS AVAILABLE IN MOST FORMULATIONS.

Optimal Rebound & Recovery Insole Technology That Supports Dynamic Movement

OrthoLite® R&R™ delivers exceptional comfort and maximum recovery—with high energy-return to restore and rejuvenate feet.

PRODUCT SUMMARY

OrthoLite® R&R™ (Rebound & Recovery) is a high-performance formulation that responds to dynamic movement with maximum energy-return that supports faster recovery. With softer properties and higher density, the unique feeling of OrthoLite® R&R™ allows tired feet to recover with less stress.

APPLICATION

OrthoLite® R&R™ provides a unique dual-layer feel in a single-density solution while also providing all day comfort and support. Delivering immediate step in comfort due to its softer feel and higher density that combine to create high energy return that allows tired feet to recover with less stress. In addition, OrthoLite® R&R™ is a great performance technology that is versatile under all conditions from simply walking to dynamic athletic movements.

5%

Total
Eco
Content

5% Recycled
Rubber

Formulation
R&R

MOQ
Standard

Density:

0.16g/cm³

Hardness:

15 +/-4 Asker C

Thickness:

2mm-20mm

Sheet Size:

110cm x 170cm

Colors Available:

Castlerock 18-0201 TPX

Seedpearl Hybrid 12-0703 TPX

Zero Waste Initiative:

All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Hybrid

ORTHOLITE® HYBRID™
TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS
AVAILABLE IN MOST FORMULATIONS.

Fast-molding Foam with Instant Rebound

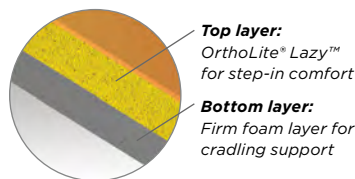
OrthoLite® Lazy™ gives a custom fit—quickly molding to the shape of the foot and then instantly rebounding when the foot is removed.

PRODUCT SUMMARY

OrthoLite® Lazy™ foam conforms to the foot to create a comfortable, custom fit—and rapidly rebounds to its original shape when the shoe is taken off. It gives the feeling of newness and plush, supportive comfort every time the shoe is put on.

APPLICATION

OrthoLite® Lazy™ formulation is best used as a top layer on a firmer OrthoLite® base layer. As the bottom layer cradles and supports, the OrthoLite® Lazy™ top layer creates maximum cushioning and comfort.



Formulation
Lazy

MOQ
Standard

5% Total
Eco
Content

5% Recycled
Rubber

Slow Recovery
Return Rate:
3-5 Seconds

Density:
0.15g/cm³

Hardness:
71-79F

Thickness:
2mm-12mm

Sheet Size:
110cm x 170cm

Finished Goods:
Available in sheets
and die-cut.

Contact your OrthoLite®
representative regarding
molded specifications.

Zero Waste
Initiative:
All OrthoLite®
formulations
utilize recycled rubber
and/or production waste
foam to support our end
goal of Zero Waste.



Colors Available:
Yellow 13-0858 TPX
Seedpearl Hybrid 12-0703 TPX



Hybrid

ORTHOLITE® HYBRID™
TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS
AVAILABLE IN MOST FORMULATIONS.

Ultra-high Density, Impact-absorbing Foam for Superior Comfort & Protection

OrthoLite® X-Sorb™ is the highest density, lowest rebound foam ever engineered by OrthoLite®—providing outstanding shock-dampening and energy absorption. The formulation is ideal for a wide range of applications across footwear, sports and safety equipment where unequaled comfort, performance, stability and mobility are critical.

PRODUCT SUMMARY

With its extraordinarily low resiliency and high density, OrthoLite® X-Sorb™ foam deadens impact forces before they're transferred to the body. Low elongation and ultra-high tensile strength allow it to stretch and rebound—enhancing range of motion while maintaining all the signature OrthoLite® attributes. With OrthoLite® X-Sorb™, footwear can deliver superior confidence and under-foot protection, and sports equipment can enhance safety and reduce fatigue without adding bulk.

APPLICATION

OrthoLite® X-Sorb™ is perfect for any situation that requires exceptional comfort and protection from impact and vibration. In footwear, it can be used in both single- and dual-layer applications—with a softer foam on top to deliver immediate step-in comfort. For safety and sports equipment, its tensile strength and minimal weight provide protection while reducing fatigue and enhancing performance—while allowing for full range of motion.

5%

Total Eco Content

5%

Recycled Rubber

Formulation
vSorb

MOQ
Standard

Density:

0.18D

Hardness:

15 +/-4 Asker C

Compression Set:

≤5%

Resilience %:

≤8%

Thickness:

3mm-20mm

Sheet Size:

110cm x 170cm

110cm x 147cm

Finished Goods:

Available in sheets and die-cut.

Contact your OrthoLite® representative regarding molded specifications.

Colors Available:

Grey 17-1501 TPX

Seedpearl Hybrid 12-0703 TPX

Zero Waste Initiative:

All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



Hybrid

ORTHOLITE® HYBRID™ TECHNOLOGY

OrthoLite® Hybrid™ Technology is available in the Seedpearl Hybrid color 12-0703 TPX. Hybrid is a recycled technology that reuses post production waste foam. Waste colors and waste pieces will vary in size, density, hardness and color.

ORTHOLITE® HYBRID™ TECHNOLOGY IS AVAILABLE IN MOST FORMULATIONS.

ORTHOLITE® TECHNOLOGY

APPLICATIONS

The World's First and only Aerogel-infused Open-cell PU Foam, the Ultimate Cold and Hot Weather Footwear Solution

OrthoLite® O-Therm™ insole technology creates a thermal barrier that elevates and reduces footwear temperature regulation to an unprecedented level, infusing open-cell PU foam with a proprietary aerogel creating the lightest, most advanced version of the world's most insulative material delivering unmatched thermal insulation and all-day comfort in cold and hot weather conditions underfoot.

PRODUCT SUMMARY

The proprietary aerogel in OrthoLite® O-Therm™ traps micro-pockets of air without the need for loft and won't lose its effectiveness when compressed under foot. Unlike other aerogel solutions, OrthoLite® O-Therm™ requires no special handling and or encapsulation—truly a world's first!

OrthoLite® O-Therm™ is the superior thermal barrier that is measurably more effective at blocking cold and heat underfoot than conventional insole technologies. Third party lab tests conducted by Vartest labs for cold and heat blocking performance, confirm the benefits of OrthoLite® O-Therm™ and its ability to deliver underfoot protection at extreme cold temperatures of -108°F or excessive heat at 140°F. Like all other OrthoLite® insoles technologies, O-Therm delivers on our promise of maximum breathability, performance, and unrivaled comfort. With the remarkable innovation of OrthoLite® O-Therm™, consumers can stay out longer, perform better and go farther in cold and hot weather conditions.

APPLICATION

OrthoLite® O-Therm™ is the optimal underfoot thermal barrier, with a thickness range from 2mm-20mm, you can dial in the level of cold or heat block performance based on the thickness of the foam you select. OrthoLite® O-Therm™ can also be combined with a wide range of OrthoLite® top-layer foams to create a custom insole solution tailored to a broad range of footwear categories.

Available in molded and die-cut applications, OrthoLite® O-Therm™ is also an ideal thermal barrier solution for footwear linings and Strobel layers—bringing unsurpassed cold block and heat block technology without adding bulk or weight.



Top Cover
Fabric

OrthoLite® O-Therm™
Molded Insole



Recycled
content



Long-term
cushioning



Moisture
management



High-level
breathability



Lightweight



Washable



Antimicrobial



*OrthoLite® O-Therm™ is a
proprietary aerogel-infused foam
providing the ultimate thermal barrier
against cold and heat underfoot.*



OrthoLite® O-Therm™
Die-cut Insole

Formulation
OrthoLite® O-Therm™

MOQ
Standard

5% Total
Eco
Content

5% Recycled
Rubber

Density:
0.11g/cm³

Hardness:
25 +/-4 Asker C

**OrthoLite® O-Therm™
thickness:**
2mm-20mm

Sheet Size:
110cm x 200cm

Application:
Cold and Heat Block

Finished Goods:
Available in molded
and die-cut.

Color Available:
Lava Red PMS 1795

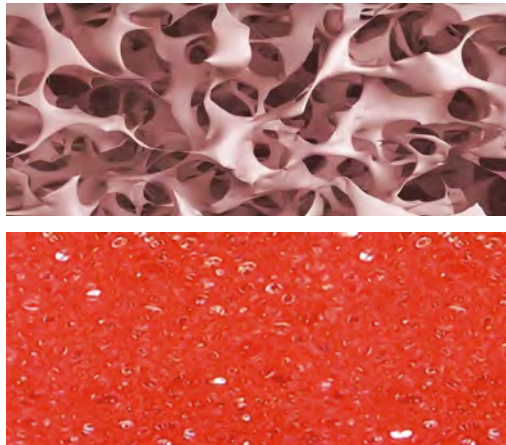
**Zero Waste
Initiative:**

All OrthoLite®
formulations
utilize recycled rubber
and/or production waste
foam to support our end
goal of Zero Waste.



OrthoLite® O-Therm™ Aerogel Thermal Foam Performance

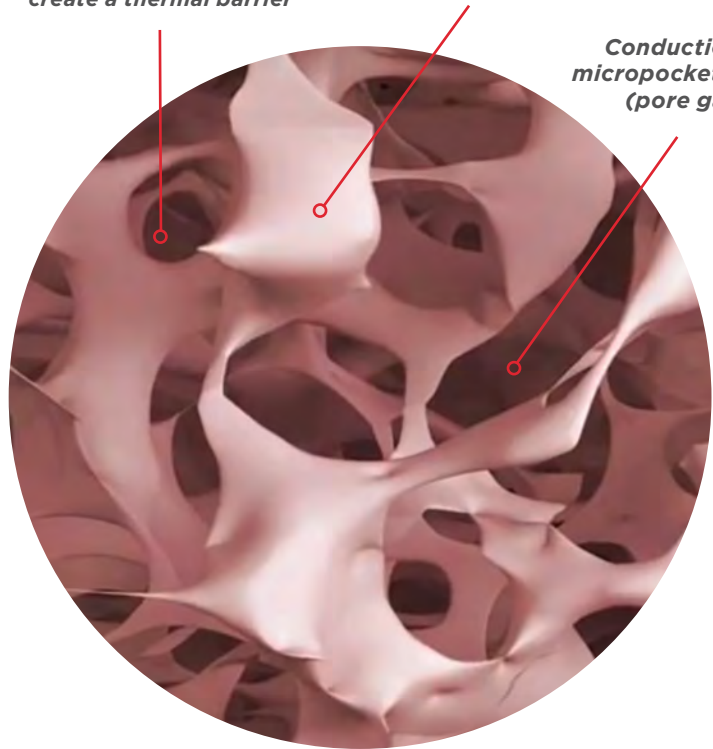
Aerogel is embedded in the polymer reducing its thermal conductivity, and by so increasing the thermal resistance of the matrix creating an optimal thermal barrier from cold and heat.



Nano pores inside a multi-porous structure create a thermal barrier

Conduction through the foam matrix

Conduction in micropockets of air (pore gas)



KEY ATTRIBUTES OF AEROGEL



THERMAL INSULATION

- Nano pores inside a multi-porous structure creates a thermal barrier
- Thermal conductivity: 17 to 22 mW/m.K



LIGHTNESS

- Lightest man made material. Only weighs 3x the weight of air.
- Air porosity is more than 90%!
- Low density enhances the performance of the shoe with airy comfort.



HYDROPHOBICITY

- Super hydrophobic. Repels water and moisture.
- Contact angle of more than 160°C
- Moisture is moved away from the foot to provide a drier, healthier shoe environment



TESTING PROTOCOL

OrthoLite® worked with renowned third party thermal test laboratory, Vartest Laboratories, to quantify the thermal performance of OrthoLite® O-Therm™ aerogel insoles under extreme cold and heat conditions.

Testing was performed on 3 insole thicknesses: 2mm, 4mm and 6mm. Each insole had a CK mesh top cloth. Results were reported over 10 minutes. The tests were performed with components layered from top to bottom as follows:

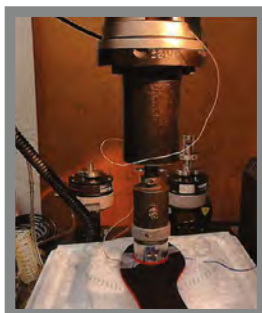
- 10psi of force to simulate a person standing on the insoles
- Silicone disc on top of insole used as human skin surrogate
- Thermocouple/thermometer
- Insole
- Thermocouple/thermometer
- Cold testing: dry ice base temperature is -108.4°F (-78°C)
- Heat testing: The hot plate base temperature is 140°F (60°C)

COLD TESTING

The protocol for cold testing used dry ice to establish a base temperature of -108.4°F (-78°C).

HEAT TESTING

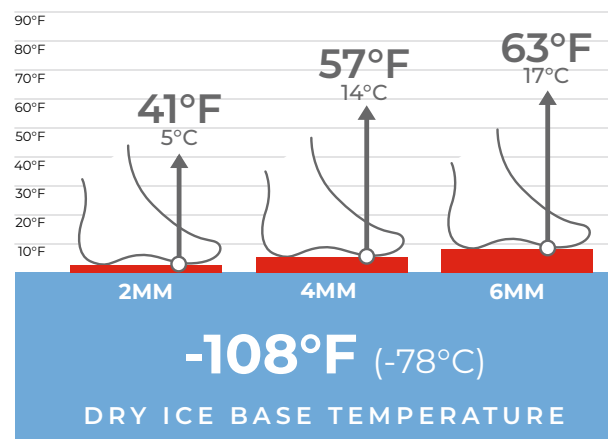
The protocol for heat testing used a hot plate to establish a base temperature of 140°F (60°C).



*Testing conducted at
Vartest Laboratories*

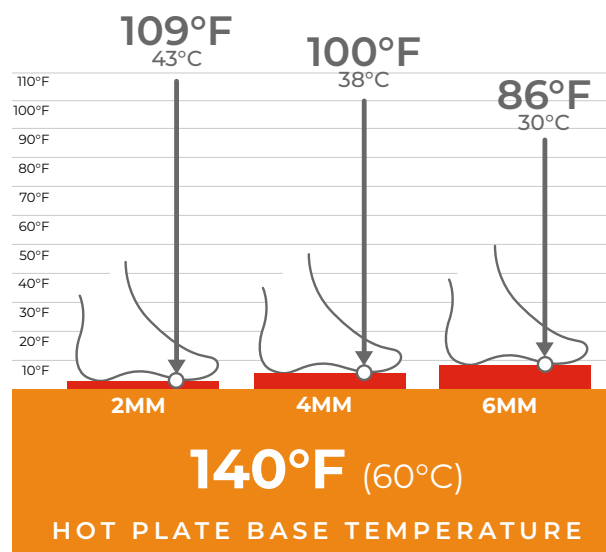
Cold Blocking Results

With a baseline temperature of -108°F underfoot, third party lab tests show that increasing the thickness of OrthoLite® O-Therm™ underfoot measurably increases the level of thermal resistance/temperature specifically in the area measured underfoot. The chart below demonstrates those changes applying a thickness range of 2-6mm of OrthoLite® O-Therm™.



Heat Blocking Results

With a baseline temperature of 140°F underfoot, third party lab tests show that increasing the thickness of OrthoLite® O-Therm™ underfoot measurably increases the level of thermal resistance/temperature specifically in the area measured underfoot. The chart below demonstrates those changes applying a thickness range of 2-6mm of OrthoLite® O-Therm™.



Visible Technology with Step-in Comfort

OrthoLite® 3D Skive™ is a proprietary cutting technology providing a new level of comfort and performance.

PRODUCT SUMMARY

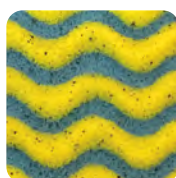
OrthoLite® 3D Skive™ features an exclusive comfort and performance design with unique cutting geometries that amplify breathability and cushioning. The design is available in a range of textures—wave, egg crate and pebble path—with 3mm peaks and valleys creating instant step-in comfort and massage-like feel while maintaining their shape over time.

OrthoLite® 3D Skive™ Heel combines wave and egg-crate cutting geometry to amplify heel cushioning. The embedded two-layer oval design uses exclusive OrthoLite® 3D Skive™ foam technology to create instant step-in comfort. This visible technology is an excellent selling feature, drawing consumers to the product.



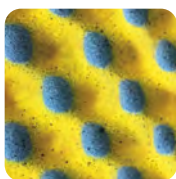
APPLICATION

OrthoLite® 3D Skive™ is the perfect solution for all day comfort—best used in a comfort, casual or dress application to provide soft underfoot stimulation. Consumers will love the underfoot feel, while enjoying a cooler, drier, healthier environment inside the shoe.



Wave:

This textured cushioning technology delivers massaging comfort. Available in both single- and dual-density.



Egg Crate:

The textured cushioning creates the sensation of walking on air. Available in both single- and dual-density.



Pebble Path:

The organic pebble pattern based in reflexology stimulates and relaxes the foot. Available in single-density.

Thickness:

5mm-7mm

Sheet Size:

33cm x 110cm

Formulations:

Due to our proprietary cutting technology, OrthoLite® 3D Skive™ is available with most all of our formulations with the exception of OrthoLite® Lazy™, OrthoLite® Impressions™, and OrthoLite® Imperial™.

Colors Available:

OrthoLite® Colors

Zero Waste Initiative:

All OrthoLite® formulations utilize recycled rubber and/or production waste foam to support our end goal of Zero Waste.



MESH O1.

Completed testing and approved



www.ortholite.com



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