Ethafoam® Synergy® 2000

Polyethylene Foam Products

Next Generation
Low Abrasion
Fine Cell
Polyethylene Foam
The next generation of Ethafoam® Synergy® has increased performance and dependability, while providing unparalleled cushioning protection against repeated impacts. These qualities are further enhanced with the excellent surface protection and high quality aesthetics.

SUPERIOR APPEARANCE
The enhanced cell count of Ethafoam® Synergy® results in a smooth, homogeneous plank with a soft feeling surface.

PERFORMANCE CUSHIONING
All the industry leading cushioning properties of Ethafoam®, engineered to perfection.

SOFT TOUCH FOR LOW ABRASION
When performance meets perfection, the result is a soft touch with superior scratch protection.

EASE OF FABRICATION
Whether it’s routing, water jet cutting or die cutting, the choice is easy.

RESISTANT
When harsh chemicals, extreme variable temperatures or dampness are part of your environment, Ethafoam® Synergy® is up to the challenge.

ETHAFOAM® SYNERGY® IS 100% RECYCLABLE
Ethafoam® Synergy® is an odorless non-crosslinked foam manufactured from a polyethylene resin that is readily available and easily recyclable.

FINE CELL LOW ABRASION
Using continuous extrusion benefits the manufacturing process to achieve a more consistent product quality.

Ethafoam® Synergy® foam provides a uniform cell structure, resulting in a fine cell foam with a flat profile which is dimensionally stable.

The fine cell structure gives a soft feel characteristic that provides low abrasion performance. This provides excellent abrasion resistance on highly polished or painted surfaces.

Ethafoam® Synergy® foam can be used in a wide range of applications:
- Specialty packaging
- Case inserts
- Presentation packs
- Sport mats
- Buoyancy
- Cushioned packaging
## TYPICAL PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>Test Method</th>
<th>Unit</th>
<th>Ethafoam® Synergy® 2000°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Density</td>
<td>ASTM D3575-14 Suffix-W</td>
<td>Lb./ft.³</td>
<td>2.0</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>vertical @ 25%</td>
<td>ASTM D3575-14 Suffix D</td>
<td>psi</td>
<td>7.0</td>
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<tr>
<td>vertical @ 50%</td>
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<td></td>
<td>13.0</td>
</tr>
<tr>
<td>Compression Set</td>
<td>ASTM D3575-14 Suffix B</td>
<td>%</td>
<td>&lt; 25</td>
</tr>
<tr>
<td>(50% compression)</td>
<td></td>
<td></td>
<td>&lt; 20</td>
</tr>
<tr>
<td>(25% compression)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressive Creep</td>
<td>ASTM D3575-14 Suffix BB</td>
<td>%</td>
<td>&lt;10</td>
</tr>
<tr>
<td>168 hrs</td>
<td></td>
<td></td>
<td>(2.0 psi)</td>
</tr>
<tr>
<td>1000 hrs</td>
<td></td>
<td></td>
<td>&lt;10</td>
</tr>
<tr>
<td>(1.25 psi)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cell Count</td>
<td>BS 4443/1 Met.4</td>
<td>Cells/in.</td>
<td>≥ 45</td>
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<tr>
<td>Thermal Stability</td>
<td>ASTM D3575-14 Suffix T</td>
<td>%</td>
<td>&lt; 2</td>
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<tr>
<td>Tensile Strength (psi) @ 1/2&quot; thickness (MD/CD)</td>
<td>ASTM D3575-14 Suffix T</td>
<td>psi</td>
<td>31.0</td>
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<td>Tear Strength (MD/CD)</td>
<td>ASTM D3575-14 Suffix G</td>
<td>Lb./in.</td>
<td>9.0</td>
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<tr>
<td>Water Absorption</td>
<td>ASTM D3575-14 Suffix L</td>
<td>Lb./ft.²</td>
<td>&lt; 0.3</td>
</tr>
</tbody>
</table>

* Physical properties are based on a 24” wide extruded product.
Typical Applications

Ethafoam® Synergy® is designed to meet a broad range of protective packaging and material handling requirements, offering package designers and fabricators a variety of creative opportunities in a wide range of markets.

**AUTOMOTIVE**
Polished parts, components, body panels, grilles

**AEROSPACE**
Components, dials, polished parts

**ELECTRONICS**
Diagnostic equipment, sound and lighting equipment

**HEALTHCARE**
Medical test equipment

**MARINE**
GPS, polished parts, dials, decorative items

**LEISURE**
Archery equipment, musical instruments