Foam-Control MAX® graphite enhanced molded polystyrene is for all types of industrial, packaging, and construction uses. Foam-Control MAX conforms to ASTM C578, “Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation”. Foam-Control MAX is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER11812-05.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>FOAM-CONTROL MAXX®</th>
<th>100</th>
<th>150</th>
<th>250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density, Nominal</td>
<td>ASTM C303</td>
<td>lb/ft³ (kg/m³)</td>
<td>1.0 (16)</td>
<td>1.5 (24)</td>
</tr>
<tr>
<td>R-value₂, Thermal Resistance, ASTM C518</td>
<td></td>
<td>°F-ft²-h/Btu (°K-m²/W)</td>
<td>5.2 (0.91)</td>
<td>5.2 (0.91)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40°F</td>
<td>5.0 (0.88)</td>
<td>5.0 (0.88)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>75°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressive Strength³, @ 10% deformation, min.</td>
<td>ASTM D1621</td>
<td>psi (kPa)</td>
<td>10 (69)</td>
<td>15 (104)</td>
</tr>
<tr>
<td>Flexural Strength, min.</td>
<td>ASTM C203</td>
<td>psi (kPa)</td>
<td>25 (173)</td>
<td>35 (242)</td>
</tr>
<tr>
<td>Water Vapor Permeance³ of 1.0 in. thickness, max., perm</td>
<td>ASTM E96</td>
<td></td>
<td>5.0</td>
<td>3.5</td>
</tr>
<tr>
<td>Water Absorption⁴, volume %</td>
<td>ASTM C272</td>
<td></td>
<td>0.3</td>
<td>0.3</td>
</tr>
<tr>
<td>Flame Spread</td>
<td>ASTM E84</td>
<td></td>
<td>&lt;25</td>
<td>&lt;25</td>
</tr>
<tr>
<td>Smoke Developed</td>
<td>ASTM E84</td>
<td></td>
<td>&lt;450</td>
<td>&lt;450</td>
</tr>
<tr>
<td>ASTM C578 Compliance, Type</td>
<td></td>
<td>Type I</td>
<td>Type II</td>
<td>Type IX</td>
</tr>
</tbody>
</table>

1 Please refer to ASTM C578 specification for complete information.
2 R-values are based on 1/16" thickness.
3 Compressive strength is measured at 10 percent in accordance with ASTM C578.
4 A safety factor is required to prevent long-term creep for sustained loads. For static loads, a safety factor of 3:1 is recommended.
4 ASTM C272 24 hour immersion followed by 24 hour storage in 75°F/50%RH air.
Design Options.
Cost effective design is among the highest priorities for industrial, packaging, and construction applications. Foam-Control MAX products are available in a range of Types necessary to provide control of structural integrity, thermal resistance (R-value), and cost effectiveness.

Thermal Performance.
The R-value of Foam-Control MAX remains constant and does not suffer from R-value loss. The closed cell structure of Foam-Control MAX contains air and not blowing agents which deplete over time.

Powered by graphite®
Foam-Control MAX is comprised of many small pockets of air within a polymer matrix containing graphite. The graphite reflects radiant heat energy like a mirror, increasing the material’s resistance to heat flow or R-value.

Exposure to Water and Water Vapor.
The mechanical properties of Foam-Control MAX are unaffected by moisture. Exposure to water or water vapor does not cause swelling.

Temperature Exposure/Flame Retardants.
Foam-Control MAX is able to withstand the rigors of temperature cycling, assuring long-term performance.

Although flame retardants used in the manufacture of Foam-Control MAX provide an important margin of safety, all EPS products must be considered combustible.

The maximum recommended long-term exposure temperature for Foam-Control MAX is 165°F (74°C).

Adhesives, Coatings, and Chemicals.
Solvents which attack Foam-Control MAX include esters, ketones, ethers, aromatic, and aliphatic hydrocarbons and their emulsions, among others. If Foam-Control MAX is to be placed in contact with materials (or their vapors) of unknown composition, pretest for compatibility at maximum exposure temperature.

Do not install or use Foam-Control MAX with coal tar pitch, highly solvent-extended mastics, or solvent-based adhesives without adequate separation.

Proven to meet, or exceed, building codes.
Foam-Control is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER11812-05. Foam-Control meets ASTM C578, “Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation”.

Termite Resistant - Perform Guard®
Foam plastic insulations have been shown to become termite infested under certain exposure conditions. Foam-Control MAX with Perform Guard® provides resistance to termite infestation.

Resistance to Mold and Mildew.
Foam-Control MAX will not decompose and will not support mold or mildew growth. Foam-Control MAX provides no nutrient value to plants or animals.

Product Protection.
Foam-Control MAX can be damaged by prolonged direct sunlight exposure or by reflected sunlight. Foam-Control MAX must be protected during storage, transportation, and at the project with a light colored opaque material. Please refer to the Foam-Control MAX Handling Instructions.

Warranty.
Foam-Control MAX Licensees offer a product warranty ensuring thermal performance, physical properties, and termite resistance.