


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.



PRODUCT					
		100	150	250	
Density, Nominal ASTM C303	lb/ft ³ (kg/m ³)	1.0 (16)	1.5 (24)	2.0 (32)	
R-value ^{1,2} , Thermal Resistance, ASTM C518	40°F	°F·ft ² ·h/Btu (°K·m ² /W)	5.2 (0.91)	5.2 (0.91)	5.3 (0.93)
	75°F	°F·ft ² ·h/Btu (°K·m ² /W)	5.0 (0.88)	5.0 (0.88)	5.0 (0.88)
Compressive Strength ^{1,3} @ 10% deformation, min. ASTM D1621	psi (kPa)	10 (69)	15 (104)	25 (173)	
Flexural Strength ¹ , min. ASTM C203	psi (kPa)	25 (173)	35 (242)	50 (345)	
Water Vapor Permeance ¹ of 1.0 in. thickness, max., perm ASTM E96		5.0	3.5	2.5	
Water Absorption ⁴ volume % ASTM C272		0.3	0.3	0.3	
Flame Spread ASTM E84		<25	<25	<25	
Smoke Developed ASTM E84		<450	<450	<450	
ASTM C578 Compliance, Type		Type I	Type II	Type IX	

¹ Please refer to ASTM C578 specification for complete information.

² R-values are based on 1-1/8" thickness.

³ Compressive strength is measured at 10 percent in accordance with ASTM C578. 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.

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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.



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INSULATION POWERED
BY GRAPHITE®**