



Geofoam No. 5004

Subject: R-Values of EPS Geofoam

Date: September 2007 (Revised February 2011)

Foam-Control EPS is manufactured in conformance to ASTM D6817, "Standard Specification for Rigid Cellular Polystyrene Geofoam." This standard covers the material properties most often required for EPS Geofoam.

However, Foam-Control EPS Geofoam is often used in applications which require detailed information of the insulation performance, or R-value. The following Table provides

R-value information for Foam-Control EPS Geofoam. The values in the table are based on testing in accordance with ASTM C177, "Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus," or ASTM C518, "Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus."

Foam-Control EPS Properties									
Property			ASTM D6817						
			EPS12	EPS15	EPS19	EPS22	EPS29	EPS39	EPS46
Density ¹ , min.		lb/ft ³ (kg/m ³)	0.70 (12)	0.90 (15)	1.15 (18)	1.35 (22)	1.80 (29)	2.40 (38)	2.85 (46)
Thermal Resistance ¹ , min per 1.0 in. thickness	25°F	°F.ft ² .h/Btu (°K.m ² /W)	3.45 (0.61)	4.20 (0.74)	4.40 (0.77)	4.60 (0.85)	4.80 (0.84)	4.80 (0.84)	4.90 (0.86)
	40°F	°F.ft ² .h/Btu (°K.m ² /W)	3.30 (0.58)	4.00 (0.70)	4.20 (0.74)	4.40 (0.77)	4.60 (0.81)	4.60 (0.81)	4.70 (0.83)
	75°F	°F.ft ² .h/Btu (°K.m ² /W)	3.10 (0.55)	3.60 (0.63)	3.80 (0.67)	4.00 (0.70)	4.20 (0.74)	4.20 (0.74)	4.30 (0.76)

¹ See ASTM D6817 Standard for test methods and complete information



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