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# ASTM D6817 ASTM C578

This table outlines a few key physical properties of ThermaFoam R-Control Geofoam in accordance with ASTM D6817, "Standard Specification for Rigid Cellular Polystyrene Geofoam" compared to ThermaFoam R-Control insulation in accordance with ASTM C578, "Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation".

Product		THERMAFOAM GEOFOAM 12	THERMAFOAM GEOFOAM 15	THERMAFOAM GEOFOAM 19	THERMAFOAM GEOFOAM 22	THERMAFOAM GEOFOAM 29	THERMAFOAM GEOFOAM 39	THERMAFOAM GEOFOAM 46	THERMAFOAM R-CONTROL 50	THERMAFOAM R-CONTROL 100	THERMAFOAM R-CONTROL 130	THERMAFOAM R-CONTROL 150	THERMAFOAM R-CONTROL 250	THERMAFOAM R-CONTROL 400	THERMAFOAM R-CONTROL 600
ASTM D6817 <sup>1</sup> Compliance, Type		EPS12	EPS15	EPS19	EPS22	EPS29	EPS39	EPS46							
ASTM C578 <sup>2</sup> Compliance, Type									XI	I	VIII	II	IX	XIV	XV
Density <sup>1,2</sup> , min., ASTM C303	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	0.70 (11)	0.90 (15)	1.15 (18)	1.35 (22)	1.80 (29)	2.40 (38)	2.85 (46)	0.70 (12)	0.90 (15)	1.15 (18)	1.35 (22)	1.80 (29)	2.40 (38)	3.0 (48)
Compressive Resistance @1% deformation <sup>1</sup> , min., ASTM D1621	psi (kPa)	2.2 (15)	3.6 (25)	5.8 (40)	7.3 (50)	10.9 (75)	15.0 (103)	18.6 (128)							
Compressive Strength @10% <sup>2</sup> , min., ASTM D1621	psi (kPa)								5 (35)	10 (69)	13 (90)	15 (104)	25 (173)	40 (276)	60 (414)
R-value <sup>2</sup> , Thermal Resistance, per inch, ASTM C518	°F·ft <sup>2</sup> ·h/Btu (°K·m <sup>2</sup> /W)								3.2 (0.56)	3.9 (0.68)	3.9 (0.69)	4.2 (0.73)	4.4 (0.77)	4.4 (0.77)	4.5 (0.78)
Flexural Strength <sup>1,2</sup> , min. ASTM C203	psi (kPa)	10 (69)	25 (172)	30 (207)	35 (240)	50 (345)	60 (414)	75 (517)	10 (69)	25 (173)	30 (208)	35 (242)	50 (345)	60 (414)	75 (517)
Oxygen Index <sup>1,2</sup> , min.	vol. %	24	24	24	24	24	24	24	24	24	24	24	24	24	24

<sup>1</sup> Please refer to ASTM D6817 specification for complete information.

<sup>2</sup> Please refer to ASTM C578 specification for complete information.

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