

OPCORE® EPS Materials

ASTM D6817 Geofoam / ASTM C578 Insulation

				OPCORE® GEO							OPCORE®						
Metric	Method	Conditions	Units	OPCORE GEOFOAM ASTM D6817 ¹							OPCORE Rigid Insulation ASTM C578 ²						
Type	Classification			EPS12	EPS15	EPS19	EPS22	EPS29	EPS39	EPS46	XI	I	VIII	II	IX	XIV	XV
Density	ASTM C303	Minimum	lbs / ft ² (kg / m ³)	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	ASTM D1621	@ 1% deformation	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	ASTM D1621	@ 10% deformation	psi (kPa)	—	—	—	—	—	—	—	5 (35)	10 (69)	13 (90)	15 (104)	25 (173)	40 (276)	60 (414)
Thermal Resistance (R-value) ³	ASTM C518	per inch of thickness	°F•ft ² •h/BTU (K•m ² /W) 75 ±2°F (23.9 ±1°C)	—	—	—	—	—	—	—	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	ASTM C203	Minimum	psi (kPa)	10 (69)	25 (173)	30 (208)	35 (242)	50 (345)	60 (414)	75 (517)	10 (69)	25 (173)	30 (208)	35 (242)	50 (345)	60 (414)	75 (517)
Oxygen Index	ASTM D2863	Minimum	Volume %	24	24	24	24	24	24	24	24	24	24	24	24	24	24

The table above illustrates key physical properties of OPCO Inc. Geofoam (ASTM D6817) Products and OPCORE® Products (ASTM C578), each classified under their respective ASTM standard specifications. ASTM specifications shown are typical for rigid, cellular polystyrene thermal insulation and are published by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959.

¹ Please refer to ASTM D6817 specification for complete information.

² Please refer to ASTM C578 specification for complete information.

³ R-value means resistance to heat flow. The higher the R-value, the greater the insulating power. Ask your seller for help with sizing. The R-value properties shown are based on 1 in thickness. Values quoted are maximum values for 1 inch (25mm) thick samples and are based upon most recent raw material product quality audit data.



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