EPS Geofoam Datasheet

Typical Physical Properties of EPS Geofoam		Type XI	Type I	Type VIII	Type II	Type IX	Type XIV
Type-ASTM D6817	***Units***	***EPS12***	***EPS15***	***EPS19***	***EPS22***	***EPS29***	***EPS 39***
Density, min.	lb/ft^3 (kg/m^3)	0.70 (11.2)	0.90 (14.4)	1.15 (18.4)	1.35 (21.6)	1.80 (28.8)	2.40 (38.4)
Compressive Resistance min. @ 1% deformation	psi (kPa)	2.2 (15)	3.6 (25)	5.8 (40)	7.3 (50)	10.9 (75)	15.0 (103)
Compressive Resistance min. @ 5% deformation	psi (kPa)	5.1 (35)	8.0 (55)	13.1 (90)	16.7 (115)	24.7 (170)	35.0 (241)
Compressive Resistance min. @ 10% deformation	psi (kPa)	5.8 (40)	10.2 (70)	16.0 (110)	19.6 (135)	29.0 (200)	40.0 (276)
Flexural Strength, min.	psi (kPa)	10.0 (69)	25.0 (172)	30 (207)	40 (276)	50.0 (345)	60.0 (414)
Oxygen Index, min.	volume %	24.0	24.0	24.0	24.0	24.0	24.0
Dimensional Stability	(max. %)	<2%	<2%	<2%	<2%	<2%	<2%
Buoyancy Force	lb/ft^3 (kg/m^3)	61.7 (990)	61.5 (980)	61.3 (980)	61.1 (980)	60.6 (970)	60.0 (960)
Absorption	volume %	< 4.0	< 4.0	< 3.0	< 3.0	< 2.0	< 2.0

*Properties are based on data provided by resin manufacturers, independent test agencies

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