

Typical Physical Property Requirements of RCPS Geofoam

Type	EPS12	EPS15	EPS19	EPS22	EPS29
Density, min. Kg/m ³ (lb/ft ³)	11.2 (0.70)	14.4 (0.90)	18.4 (1.15)	21.6 (1.35)	28.8 (1.80)
Compressive Resistance, min. kPa (psi) at 1%	15 (2.2)	25 (3.6)	40 (5.8)	50 (7.3)	75 (10.9)
Compressive Resistance, min. kPa (psi) at 5%	35 (5.1)	55 (8.0)	90 (13.1)	115 (16.7)	170 (24.7)
Compressive Resistance, min. kPa (psi) at 10%	40 (5.8)	70 (10.2)	110 (16.0)	135 (19.6)	200 (29.0)
Flexural Strength, min. kPa (psi)	69 (10.0)	172 (25.0)	207 (30.0)	276 (40.0)	345 (50.0)
Oxygen index, min. Volume %	24.0	24.0	24.0	24.0	24.0

Imperial/Metric Conversion

Length	1 foot	0.308 meter
Force	1 pound force	4.448 Newton
Stress (modulus of elasticity)	1 pound force per square foot (psf)	47.88 Pascal
	1 pound force per square inch (psi)	6.898 kilopascal (kPa)



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