



HARBOR FOAM^{INC.}
 manufacturers of eps foam

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COMPARISON OF GEOFOAM STANDARDS

ASTM C 578-04	Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV
Density (nominal)	0.70	1.00	1.25	1.50	2.00	2.40	3
Density (minimum)	0.70	0.90	1.15	1.35	1.80	2.40	2.85
Compressive resistance	5.0 psi	10.0 psi	13.0 psi	15.0 psi	25.0 psi	40.0 psi	60.0 psi
10% deformation	35 kPa	69 kPa	90 kPa	104 kPa	173 kPa	276 kPa	414 kPa
Flexural strength	10 psi	25 psi	30 psi	35 psi	50 psi	60 psi	75 psi
minimum	70 kPa	173 kPa	208 kPa	240 kPa	345 kPa	414 kPa	517 kPa
ASTM D 6817-02	EPS12	EPS15	EPS19	EPS22	EPS29	EPS39	EPS46
Density	0.70 lb/ft3	0.90 lb/ft3	1.15 lb/ft3	1.35 lb/ft3	1.80 lb/ft3	2.40 lb/ft3	2.85 lb/ft3
minimum	11.2 kg/m3	14.4 kg/m3	18.4 kg/m3	21.6 kg/m3	28.8 kg/m3	38.4 kg/m3	45.7 kg/m3
Compressive resistance	2.2 psi	3.6 psi	5.8 psi	7.3 psi	10.9 psi	15.0 psi	18.6 psi
1% deformation	15 kPa	25 kPa	40 kPa	50 kPa	75 kPa	103 kPa	128 kPa
Flexural strength	10 psi	25 psi	30 psi	40 psi	50 psi	60 psi	75 psi
minimum	69 kPa	172 kPa	207 kPa	276 kPa	345 kPa	414 kPa	517 kPa
AASHTO / FHWA (Draft)		EPS40	EPS50	EPS70	EPS100		
Density		1.00 lb/ft3	1.25 lb/ft3	1.50 lb/ft3	2.00 lb/ft3		
minimum		16.0 kg/m3	20.0 kg/m3	24.0 kg/m3	32.0 kg/m3		
Compressive resistance		5.8 psi	7.2 psi	10.2 psi	14.5 psi		
1% deformation		40 kPa	50 kPa	70 kPa	100 kPa		
Flexural strength		25 psi	30 psi	40 psi	50 psi		
minimum		172 kPa	207 kPa	276 kPa	345 kPa		
ASHTO	American Association of State Highway and Transportation Officials						
ASTM	American Society for Testing and Materials						
FHWA	Federal Highway Administration						