



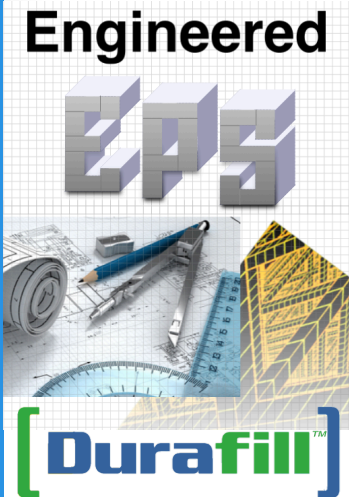
Durafill 39 Geofoam Insulation



Plymouth Foam's Durafill™ Expanded Polystyrene (EPS) geofoam is a lightweight cellular plastic foam used in block or board form for a wide range of geotechnical applications. Durafill is often used in place of natural fill on building or road construction projects where soft soil exists. Its weight-to-strength load bearing characteristics are uniquely effective in reducing the weight burden on underlying soil without sacrificing compressive strength.

- Great weight to strength load bearing characteristics
- No physical breakdown during prolonged burial
- Low water absorption
- Will not contaminate the surrounding environment
- Design Flexibility with densities, size and shapes
- Great Thermal Insulation Properties

Lighten the Load



Plymouth Foam
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Durafill™ 39 Geofoam Physical Properties			
Property		Durafill 39	
ASTM D6817			
Density, minimum	lb/ft ³	2.40	
	kg/m ³	38.4	
Compressive Resistance @ 10% deformation, min.	psi	40.0	
	psf	5760	
	kPa	276	
Compressive Resistance @ 5% deformation, min.	psi	35.0	
	psf	5040	
	kPa	241	
Compressive Resistance @ 1% deformation, min.	psi	15.0	
	psf	2160	
	kPa	103	
Flexural Strength, min.	psi	60.0	
	kPa	414	
Elastic Modulus, min.	psi	1500	
	kPa	10300	
Oxygen Index, min.	volume %	24.0	
Water Absorption by total immersion	volume %	2.0	
Buoyancy Force	lb/ft ³	60.0	
	kg/m ³	960	
ASTM C578			
Thermal Resistance (R-Value), min. per 1.0" thickness	25 deg. F	F.ft ² .h/Btu	4.8
		K.m ² /W	0.84
	40 deg. F	F.ft ² .h/Btu	4.6
		K.m ² /W	0.81
	75 deg. F	F.ft ² .h/Btu	4.2
		K.m ² /W	0.74
Water Vapor Perm. of 1" thickness, max. perm.			2.5

See ASTM D6817 and ASTM C578 for test methods and complete information. The information in this bulletin is presented in good faith, and is believed to be accurate. All statements are made without warranty expressed or implied. Each project using Durafill Geofoam should be designed by an engineer.

Contact

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