



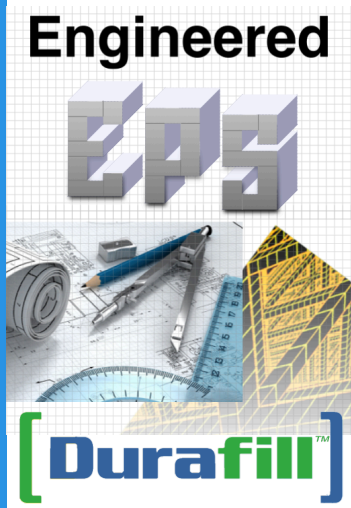
# Durafill 46 Geofoam Insulation



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



Durafill™ 46 Geofoam Physical Properties			
Property		Durafill 46	
<b>ASTM D6817</b>			
Density, minimum	lb/ft <sup>3</sup>	2.85	
	kg/m <sup>3</sup>	45.7	
Compressive Resistance @ 10% deformation, min.	psi	50.0	
	psf	7200	
	kPa	345	
Compressive Resistance @ 5% deformation, min.	psi	43.5	
	psf	6260	
	kPa	300	
Compressive Resistance @ 1% deformation, min.	psi	18.6	
	psf	2680	
	kPa	128	
Flexural Strength, min.	psi	75.0	
	kPa	517	
Elastic Modulus, min.	psi	1860	
	kPa	12800	
Oxygen Index, min.	volume %	24.0	
Water Absorption by total immersion	volume %	2.0	
Buoyancy Force	lb/ft <sup>3</sup>	59.5	
	kg/m <sup>3</sup>	950	
<b>ASTM C578</b>			
Thermal Resistance (R-Value), min. per 1.0" thickness	25 deg. F	F.ft <sup>2</sup> .h/Btu	4.9
		K.m <sup>2</sup> /W	0.86
	40 deg. F	F.ft <sup>2</sup> .h/Btu	4.7
		K.m <sup>2</sup> /W	0.83
	75 deg. F	F.ft <sup>2</sup> .h/Btu	4.3
		K.m <sup>2</sup> /W	0.76
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.

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