



Durafill 12

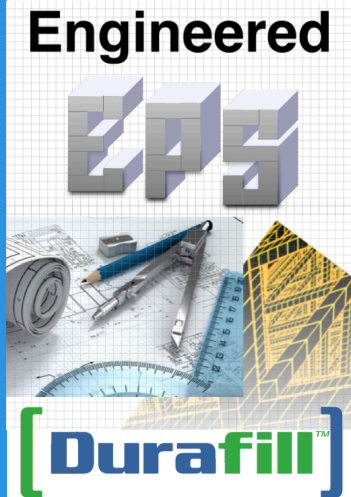
Geofoam Insulation



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™ 12 Geofoam Physical Properties			
Property			Durafill 12
ASTM D6817			
Density, minimum	lb/ft ³		0.70
	kg/m ³		11.2
Compressive Resistance @ 10% deformation, min.	psi		5.8
	psf		840
	kPa		40
Compressive Resistance @ 5% deformation, min.	psi		5.1
	psf		730
	kPa		35
Compressive Resistance @ 1% deformation, min.	psi		2.2
	psf		320
	kPa		15
Flexural Strength, min.	psi		10.0
	kPa		69
Elastic Modulus, min.	psi		220
	kPa		1500
Oxygen Index, min.	volume %		24.0
Water Absorption by total immersion	volume %		4.0
Buoyancy Force	lb/ft ³		61.7
	kg/m ³		990
ASTM C578			
Thermal Resistance (R-Value), min. per 1.0" thickness	25 deg. F	F.ft ² .h/Btu	3.5
		K.m ² /W	0.61
	40 deg. F	F.ft ² .h/Btu	3.3
		K.m ² /W	0.58
	75 deg. F	F.ft ² .h/Btu	3.1
		K.m ² /W	0.55
Water Vapor Perm. of 1" thickness, max. perm.			5.0

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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