

# EPS Geofoam

## Commercial Product Data Sheet

### Description:

EPS Geofoam is a premium quality, CFC-free, expanded polystyrene insulation that is most commonly used as lightweight fill in on-structure and rooftop overburden applications to help reduce stress on the underlying structure. Geofoam can be used as lightweight fill to create landform as part of Siplast's ParaGREEN™ Vegetated Roof Solutions.

Contact Siplast for information on approved product uses.

### Uses:

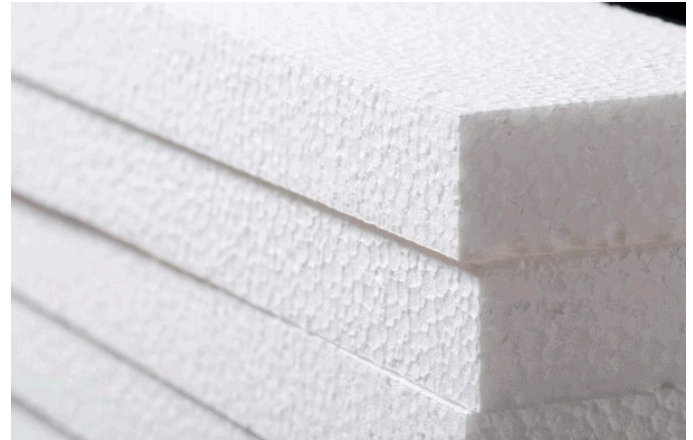
Ground Fill

<b>Standards</b>	ASTM D6817
<b>Standard Sizes*</b>	2 ft. x 4 ft. (0.61 m x 1.2 m)
	4 ft. x 8 ft. (1.2 m x 2.4 m)
<b>Thickness</b>	1 in. – 36 in. (25 mm – 914 mm)
<b>Density Range</b>	11 kg/m <sup>3</sup> – 28.8 kg/m <sup>3</sup> (0.7 lb./cf – 1.8 lb./cf)

\* Geofoam can be ordered to desired thicknesses

Physical Properties					
Property	EPS12	EPS15	EPS19	EPS22	EPS29
Density (minimum)	11.2 kg/m <sup>3</sup> (0.70 lb./ft <sup>3</sup> )	14.4 kg/m <sup>3</sup> (0.90 lb./ft <sup>3</sup> )	18.4 kg/m <sup>3</sup> (1.15 lb./ft <sup>3</sup> )	21.6 kg/m <sup>3</sup> (1.35 lb./ft <sup>3</sup> )	28.8 kg/m <sup>3</sup> (1.80 lb./ft <sup>3</sup> )
Compressive Resistance* @ 1% Deformation (minimum)	15 kPa (2.2 psi)	25 kPa (3.6 psi)	40 kPa (5.8 psi)	50 kPa (7.3 psi)	75 kPa (10.9 psi)
Flexural Strength (minimum)	69 kPa (10 psi)	172 kPa (25 psi)	207 kPa (30 psi)	276 kPa (40 psi)	345 kPa (50 psi)
Water Absorption by Total Immersion, volume (maximum)	4%	4%	3%	3%	3%
Oxygen Index, volume (minimum)	24%	24%	24%	24%	24%

\* ASTM D1621-00 using 305 mm (12 in.) cubes.



### Application:

Product density to be determined by the design professional for the project based on project specification/requirements.

### Storage and Handling:

All Siplast products should be stored in a dry place out of direct exposure to the elements. Material should be handled so that it remains dry prior to and during installation.

See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

### Limitations and Cautions:

EPS Geofoam application should be designed with density modifications when water will be present in the insitu condition. In conditions where Geofoam is continually below ground water, add 80 kg/m<sup>3</sup>. These design recommendations are based on potential water absorption and the effects on density when analyzing cases involving downward loading. They are provided for guidance purposes and should be reviewed/approved by a design professional and modified as necessary for a particular project. Contact Siplast for information on approved product uses.