



# Geofoam

## EPS Geostructural Material



### APPLICATIONS

- Typically installed below grade as a lightweight structural fill solution for geotechnical projects, highways and roads, stadium seating systems, or landscape areas
- EPS treated with insect repellent option available

## WHY GEOFOAM?

- Lightweight and durable to help prevent soil displacement and settlement
- Increases sustainability, lowers construction costs
- Decreases construction time compared to gravel
- Easy to handle and transport
- Does not require special equipment
- Resistant to corrosion, rot, decomposition, and mold growth
- Reduces risk of landslides
- Meets ASTM D6817 Standards

### Sizes

- Pre-cut options available upon project information provided (plans, specs, etc.)
- Insect treatment and non-insect treatments offered
- Varied densities, widths, lengths, and thicknesses available





## CODE APPROVALS

- **ASTM D6817** Standard Specification for Rigid Cellular Polystyrene Geofoam
- **ASTM D7180** Standard Guide for Use of Expanded Polystyrene (EPS) Geofoam in Geotechnical Projects

## GEOFOAM EXPANDED POLYSTYRENE PROPERTIES

Cellofoam® GEOFOAM EPS Properties <sup>1,2,3,4</sup>							
Physical Property	Units	EPS TYPE - ASTM D6817					
		EPS15	EPS19	EPS22	EPS29	EPS39	EPS46
Density, min.	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	0.90 (14.4)	1.15 (18.4)	1.35 (21.6)	1.80 (28.8)	2.40 (38.4)	2.85 (45.7)
Compressive Resistance @ 1% deformation, min.	psi (kPa)	3.6 (25)	5.8 (40)	7.3 (50)	10.9 (75)	15.0 (103)	18.6 (128)
Compressive Resistance @ 10% deformation, min. <sup>3</sup>	psi (kPa)	10.2 (70)	16.0 (110)	19.6 (135)	29.0 (200)	40.0 (276)	50.0 (345)
Flexural Strength, min.	psi (kPa)	25 (172)	30 (207)	35 (240)	50 (345)	60 (414)	75 (517)
Elastic Modulus, min.	psi (kPa)	360 (2500)	580 (4000)	730 (5000)	1090 (7500)	1500 (10300)	1860 (12800)
Oxygen Index, min.	volume %	24.0	24.0	24.0	24.0	24.0	24.0
Water Absorption by total immersion, max.	volume %	4.0	3.0	3.0	2.0	2.0	2.0
<p>1. When tested in accordance with ASTM D6817 Standard Test Methods</p> <p>2. All Geofoam EPS manufactured by Cellofoam North America Inc. meet ASTM D6817 standard specifications</p> <p>3. Design load stresses should not exceed the compressive resistance @ 1% strain</p> <p>4. UL Certified - See UL ER7260-01</p>							

\*Please consult local building codes and membrane manufacturers for system requirements.

Warning: This product is combustible and if exposed to a fire of sufficient heat and intensity may burn rapidly. It should not be left exposed or inadequately protected. Protect Cellofoam® expanded polystyrene from exposure to hydrocarbons, coal tar pitch, solvents, and solvent fumes. Consult specific instructions and applicable building codes for use of this product.

Cellofoam® North America Inc. is an expanded polystyrene foam manufacturer and not an engineering consulting firm. Thus, it is beyond our scope to provide design services on the specific use for our products. Users of our EIPS EPS products should consult with appropriate engineering and code experts to determine the exact type and specifications of EPS required for their project. The sale of these products shall be subject to Terms and Conditions of Sale, including those limiting warranties as set forth in Cellofoam®'s invoices. No agent, employee, or representative of Cellofoam® North America Inc. or its subsidiary or affiliated companies is authorized to modify this disclaimer.