

Dow Styrofoam™ Polystyrene Rigid Foam Insulation

Category : Polymer , Thermoplastic , Polystyrene (PS) , Expanded Polystyrene (EPS)

Material Notes:

The information below is typical of Styrofoam™ rigid polystyrene foam used for construction insulation - but many specific grades are available. This material is produced as sheets of closed-cell foam by a continuous extrusion process. Its properties will be different than expanded polystyrene beads because beads have voids between cell walls. Styrofoam is a trademark of Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Styrofoam-Polystyrene-Rigid-Foam-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.0350 g/cc	0.00126 lb/in ³	
Water Absorption	9.0 %	9.0 %	about 9% by weight or 0.3% by volume.

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	0.500 MPa	72.5 psi	Varies with grade. A safety factor of three is recommended for long term static load or traffic use.

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C	38.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.0270 W/m-K	0.187 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	75.0 °C	167 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

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