

LG Chemical R160 EPS, Flame Retardant

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

Material Notes:

Feature: Expendable Polystyrene, Flame Retardant Application: Insulation Board, Sandwich Panel Civil Engineering & Construction

Materials CAS No. 9003-53-6, 109-66-0, 3194-55-6 and 106-97-8 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-R160-EPS-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Water Absorption	0.30 %	0.30 %	[g/100cm ²], 25g/L; KS M 3808
	0.30 %	0.30 %	[g/100cm ²], 30g/L; KS M 3808
	0.38 %	0.38 %	[g/100cm ²], 20g/L; KS M 3808
	0.70 %	0.70 %	[g/100cm ²], 15g/L; KS M 3808

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	0.187 MPa	27.2 psi	15g/L; KS M 3808
	0.271 MPa	39.3 psi	20g/L; KS M 3808
	0.362 MPa	52.5 psi	25g/L; KS M 3808
	0.431 MPa	62.6 psi	30g/L; KS M 3808
Impact	0.89	0.89	[kg/cm ²], 15g/L; KS M 3808
	1.3	1.3	[kg/cm ²], 20g/L; KS M 3808
	1.79	1.79	[kg/cm ²], 25g/L; KS M 3808
	2.34	2.34	[kg/cm ²], 30g/L; KS M 3808

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0337 W/m-K	0.234 BTU-in/hr-ftÂ²-Â°F	30g/L; KS M 3808
	0.0349 W/m-K	0.242 BTU-in/hr-ftÂ²-Â°F	25g/L; KS M 3808
	0.0372 W/m-K	0.258 BTU-in/hr-ftÂ²-Â°F	20g/L; KS M 3808

Thermal Properties	Metric	English	Comments
	0.0407 W/m-K	0.0007 BTU-in/hr-ft ² -°F	15g/L, KS M 3003

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