

LG Chemical R120 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-R120-EPS-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Water Absorption	0.20 %	0.20 %	[g/100cm ²], 25g/L; KS M 3808
	0.20 %	0.20 %	[g/100cm ²], 30g/L; KS M 3808
	0.35 %	0.35 %	[g/100cm ²], 20g/L; KS M 3808
	0.65 %	0.65 %	[g/100cm ²], 15g/L; KS M 3808

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	0.197 MPa	28.6 psi	15g/L; KS M 3808
	0.300 MPa	43.5 psi	20g/L; KS M 3808
	0.390 MPa	56.6 psi	25g/L; KS M 3808
	0.486 MPa	70.5 psi	30g/L; KS M 3808
Impact	0.91	0.91	[kg/cm ²], 15g/L; KS M 3808
	1.36	1.36	[kg/cm ²], 20g/L; KS M 3808
	1.91	1.91	[kg/cm ²], 25g/L; KS M 3808
	2.4	2.4	[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-ft ² -°F	30g/L; KS M 3808
	0.0349 W/m-K	0.242 BTU-in/hr-ft ² -°F	25g/L; KS M 3808
	0.0360 W/m-K	0.250 BTU-in/hr-ft ² -°F	20g/L; KS M 3808

Thermal Properties	Metric	English	Comments
	0.0390 W/m-K	0.0070 BTU-in/hr-ft ² -°F	15g/L, KS M 3003

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