

Spartech Royalite R60M Hi-Impact ABS/PVC Resin

Category : Polymer , Thermoplastic , ABS Polymer , ABS/PVC Alloy , Vinyl (PVC)

Material Notes:

Data provided by the manufacturer. This rigid, fire-rated, proprietary resin is specifically formulated to meet the requirements of the FAR 25.853 A flammability test. Primary applications are aircraft interior parts such as seat trim, trays and window surrounds.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-Royalite-R60M-Hi-Impact-ABSPVC-Resin.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955
Melt Flow	3.9 g/10 min @Load 5.00 kg, Temperature 200 °C	3.9 g/10 min @Load 11.0 lb, Temperature 392 °F	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength, Yield	40.8 MPa	5920 psi	ASTM D638
Modulus of Elasticity	2.20 GPa	319 ksi	ASTM D638
Flexural Yield Strength	65.0 MPa	9430 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	12.5 J/cm	23.4 ft-lb/in	ASTM D256
	0.700 J/cm @Temperature -20.0 °C	1.31 ft-lb/in @Temperature -4.00 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	124 µm/m-°C @Temperature 20.0 °C	68.9 µin/in-°F @Temperature 68.0 °F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	Annealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	0.028 in.
Oxygen Index	36.8 %	36.8 %	ASTM D2863

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