

Spartech Royalite R59M Hi-Impact ABS/PVC Resin

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

Material Notes:

Data provided by the manufacturer. A unique ABS/PVC resin that meets the flammability standards of many industries and is a cost-effective alternative to standard fire-rated ABS. High rigidity in thin sections and consistent, high-quality color and gloss make it ideal for computer housings

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-Royalite-R59M-Hi-Impact-ABSPVC-Resin.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Water Absorption	0.020 %	0.020 %	24 hrs. ASTM D570
Viscosity	190400 cP @Shear Rate 3000 1/s, Temperature 191 Â°C	190400 cP @Shear Rate 3000 1/s, Temperature 375 Â°F	Melt Viscosity
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955
Melt Flow	1.8 g/10 min @Load 5.00 kg, Temperature 200 Â°C	1.8 g/10 min @Load 11.0 lb, Temperature 392 Â°F	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	83	83	ASTM D785
Tensile Strength, Yield	37.6 MPa	5450 psi	ASTM D638
Modulus of Elasticity	1.80 GPa	261 ksi	ASTM D638
Flexural Yield Strength	57.5 MPa	8340 psi	ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	7.40 J/cm	13.9 ft-lb/in	ASTM D256
	1.30 J/cm @Temperature -20.0 Â°C	2.44 ft-lb/in @Temperature -4.00 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	155 Âµm/m-Â°C @Temperature 20.0 Â°C	86.1 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM E831

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	97.0 Â°C	207 Â°F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.0 Â°C	178 Â°F	Annealed; ASTM D648
Vicat Softening Point	80.0 Â°C	176 Â°F	ASTM D1525
Flammability, UL94	5VA	5VA	V-0/0.085 in. UL 94
Oxygen Index	29.9 %	29.9 %	ASTM D2863

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