

Spartech Royalite R21M General Purpose ABS Resin

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

Material Notes:

Data provided by the manufacturer. A general-purpose ABS resin with high impact strength, R-21M is a popular choice for a variety of products, from bicycle helmets and carrying cases to portable tape decks, telephones and office furniture trim.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-Royalite-R21M-General-Purpose-ABS-Resin.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	ASTM D955
Melt Flow	1.7 g/10 min @Load 5.00 kg, Temperature 200 Â°C	1.7 g/10 min @Load 11.0 lb, Temperature 392 Â°F	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	98	98	ASTM D785
Tensile Strength, Yield	33.9 MPa	4920 psi	ASTM D638
Modulus of Elasticity	2.10 GPa	305 ksi	ASTM D638
Flexural Yield Strength	59.9 MPa	8690 psi	ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Izod Impact, Notched	4.10 J/cm	7.68 ft-lb/in	ASTM D256
	1.10 J/cm @Temperature -20.0 Â°C	2.06 ft-lb/in @Temperature -4.00 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	139 Âµm/m-Â°C @Temperature 20.0 Â°C	77.2 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C	212 Â°F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C	203 Â°F	Annealed; ASTM D648

Vicat Softening Point	82.0 Å°C	198 Å°F	ASTM D1525
Thermal Properties	Metric	English	Comments

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