

Spartech Royalite R632M Carbon Black Filled ABS/PVC Resin

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

Material Notes:

Data provided by the manufacturer. This static-conductive material is UL[®]A-listed and meets minimum static-decay requirements outlined in MIL-B-1705B and NFPA Code 56A specifications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-Royalite-R632M-Carbon-Black-Filled-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	212400 cP @Shear Rate 3000 1/s, Temperature 191 Å°C	212400 cP @Shear Rate 3000 1/s, Temperature 375 Å°F	Melt Viscosity
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955
Melt Flow	0.21 g/10 min @Load 5.00 kg, Temperature 200 Å°C	0.21 g/10 min @Load 11.0 lb, Temperature 392 Å°F	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	72	72	ASTM D785
Tensile Strength, Yield	31.3 MPa	4540 psi	ASTM D638
Modulus of Elasticity	1.90 GPa	276 ksi	ASTM D638
Flexural Yield Strength	48.4 MPa	7020 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
	0.400 J/cm @Temperature -20.0 Å°C	0.749 ft-lb/in @Temperature -4.00 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	166 Åµm/m-Å°C @Temperature 20.0 Å°C	92.2 Åµin/in-Å°F @Temperature 68.0 Å°F	ASTM E831

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	92.0 Â°C	198 Â°F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.0 Â°C	169 Â°F	Annealed; ASTM D648
Vicat Softening Point	80.0 Â°C	176 Â°F	ASTM D1525
Flammability, UL94	5VA	5VA	V-0/0.090 in. UL 94
Oxygen Index	30.4 %	30.4 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1e+05	1e+05	ASTM D257
Surface Resistance	1e+05	1e+05	ASTM D257

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