

Solvay Specialty Polymers PrimoSpire® PR-351 Polyphenylene, Self-Reinforced (SRP)

Category : Polymer , Thermoplastic

Material Notes:

PrimoSpire® PR-351 resin is a higher flow, injection molding grade of PrimoSpire® self-reinforced polyphenylene (SRP). PrimoSpire® SRP resin is an ultra-high performance amorphous, melt-processable thermoplastic. The unique properties of this material are due primarily to the rigid-rod chemical structure. PrimoSpire® SRP is differentiated from other thermoplastics by outstanding mechanical properties without fiber reinforcement. In addition, it offers scratch resistance, great friction and wear properties, excellent solvent resistance and exceptional low temperature performance. Features: Balanced Stiffness/Toughness; Ductile; Flame Retardant; Good Chemical Resistance; Low Temperature Resistant Uses: Aircraft Applications; Electrical/Electronic Applications; Industrial Applications; Medical/Healthcare Applications Additional Properties: Dynatup - ASTM D3763 58.0 J Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-PrimoSpire-PR-351-Polyphenylene-Self-Reinforced-SRP.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 380 °C	15 g/10 min @Load 11.0 lb, Temperature 716 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	115 MPa	16700 psi	ASTM D638
Elongation at Break	15 %	15 %	5 mm/min; ASTM D638
Tensile Modulus	3.90 GPa	566 ksi	ASTM D638
Flexural Strength	164 MPa	23800 psi	ASTM D790
Flexural Modulus	4.00 GPa	580 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	171 °C	340 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	365 °C	689 °F	
Middle Barrel Temperature	370 °C	698 °F	

Front Barrel Temperature Processing Properties	375 Â°C Metric	707 Â°F English	Comments
Nozzle Temperature	374 Â°C	705 Â°F	
Melt Temperature	375 Â°C	707 Â°F	
Mold Temperature	135 - 160 Â°C	275 - 320 Â°F	
Drying Temperature	150 Â°C	302 Â°F	
	@Time 14400 sec	@Time 4.00 hour	
Shot Size	30 - 70 %	30 - 70 %	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	
Processing Technique	Compression Molding; Film Extrusion	
	Injection Molding; Machining; Profile Extrusion	

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