

Solvay Specialty Polymers Ryton® XE5030BL Polyphenylene Sulfide Alloy (PPS Alloy), 30% Glass Fiber

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 30% Glass Fiber Filler

Material Notes:

Ryton® XE5030BL 30% glass fiber reinforced polyphenylene sulfide alloy compound provides high ductility and impact resistance along with good thermal stability. Features: Ductile; Good Thermal Stability; High Impact Resistance. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ryton-XE5030BL-Polyphenylene-Sulfide-Alloy-PPS-Alloy-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
Filler Content	30 %	30 %	Glass Fiber
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 3.18 mm	0.0020 in/in @Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm @Thickness 3.20 mm	0.0060 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	86	86	ASTM D785
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength	131 MPa	19000 psi	ASTM D638
Tensile Stress	135 MPa	19600 psi	ISO 527-2
Elongation at Break	2.0 %	2.0 %	ISO 527-2
	2.0 %	2.0 %	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
	200 MPa	29000 psi	ISO 178
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
	9.00 GPa	1310 ksi	ISO 178

Compressive Strength Mechanical Properties	210 MPa Metric	30500 psi English	ASTM D695 Comments
Poissons Ratio	0.38	0.38	ASTM E132
Izod Impact, Notched	0.960 J/cm @Thickness 3.18 mm	1.80 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	6.90 J/cm @Thickness 3.18 mm	12.9 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	9.50 kJ/mÂ²	4.52 ft-lb/inÂ²	Notch A; ISO 180
Izod Impact, Unnotched (ISO)	45.0 kJ/mÂ²	21.4 ft-lb/inÂ²	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 Âµm/m-Â°C @Temperature 100 - 200 Â°C	5.56 Âµin/in-Â°F @Temperature 212 - 392 Â°F	2
	20.0 Âµm/m-Â°C @Temperature -50.0 - 50.0 Â°C	11.1 Âµin/in-Â°F @Temperature -58.0 - 122 Â°F	2
CTE, linear, Transverse to Flow	55.0 Âµm/m-Â°C @Temperature -50.0 - 50.0 Â°C	30.6 Âµin/in-Â°F @Temperature -58.0 - 122 Â°F	TMA; ASTM E831
	90.0 Âµm/m-Â°C @Temperature 100 - 200 Â°C	50.0 Âµin/in-Â°F @Temperature 212 - 392 Â°F	TMA; ASTM E831
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ftÂ²-Â°F	ASTM C177
Maximum Service Temperature, Air	130 Â°C	266 Â°F	UL Temperature Rating
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C	482 Â°F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Oxygen Index	34 %	34 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257

Electrical Properties	1.00e+11 ohm	1.00e+11 ohm	
Insulation Resistance	Metric	English	Comments
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	IEC 60167
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.8	3.8	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149
Dissipation Factor	0.0030	0.0030	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0090	0.0090	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	124 sec	124 sec	ASTM D495
Comparative Tracking Index	100 V	100 V	UL 746

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	
RoHS Compliance	RoHS Compliant	

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