

Solvay Specialty Polymers Ryton® XK2340 Polyphenylene Sulfide Alloy (PPS Alloy), 40% Glass Fiber

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 40% Glass Fiber Filler

Material Notes:

Ryton® XK2340 40% glass fiber reinforced polyphenylene sulfide alloy compound provides excellent mechanical strength, toughness, and rigidity, along with excellent flow in thin-walled parts, low flash characteristics, and fast cycle times. It may be easily molded in conventional injection molding equipment utilizing water heated molds. Features: Fast Molding Cycle; Good Flow; Good Strength; Good Toughness; High Rigidity. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ryton-XK2340-Polyphenylene-Sulfide-Alloy-PPS-Alloy-40-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Filler Content	40 %	40 %	Glass Fiber
Water Absorption	0.30 % @Time 86400 sec	0.30 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.18 mm	0.0030 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	95	95	ASTM D785
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength	193 MPa	28000 psi	ASTM D638
Tensile Stress	195 MPa	28300 psi	ISO 527-2
Elongation at Break	1.8 %	1.8 %	ISO 527-2
	1.8 %	1.8 %	ASTM D638
Flexural Strength	255 MPa	37000 psi	ASTM D790
	270 MPa	39200 psi	ISO 178
Flexural Modulus	12.0 GPa	1740 ksi	ISO 178
	12.4 GPa	1800 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
Compressive Strength	255 MPa	37000 psi	ASTM D695
Poissons Ratio	0.42	0.42	ASTM E132
Izod Impact, Notched	0.850 J/cm @Thickness 3.18 mm	1.59 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	6.40 J/cm @Thickness 3.18 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	8.50 kJ/mÂ²	4.04 ft-lb/inÂ²	Notch A; ISO 180
Izod Impact, Unnotched (ISO)	35.0 kJ/mÂ²	16.7 ft-lb/inÂ²	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 Âµm/m-Â°C @Temperature 100 - 200 Â°C	8.33 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
	100 Âµm/m-Â°C @Temperature 100 - 200 Â°C	55.6 Âµin/in-Â°F @Temperature 212 - 392 Â°F	TMA; ASTM E831
Thermal Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ftÂ²-Â°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	245 Â°C	473 Â°F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Oxygen Index	35 %	35 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
	1.00e+12 ohm	1.00e+12 ohm	

Electrical Properties	Metric @ Temperature 90.0 Â°C	English @ Temperature 194 Â°F	Comments
Dielectric Constant	3.9 @Frequency 1.00e+6 Hz	3.9 @Frequency 1.00e+6 Hz	ASTM D150
	4.3 @Frequency 1000 Hz	4.3 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149
Dissipation Factor	0.010 @Frequency 1.00e+6 Hz	0.010 @Frequency 1.00e+6 Hz	ASTM D150
	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	ASTM D150
Arc Resistance	100 sec	100 sec	ASTM D495
Comparative Tracking Index	275 V	275 V	UL 746

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

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