

## Solvay Specialty Polymers Ryton® XE5515BL Polyphenylene Sulfide Alloy (PPS Alloy), 15% Glass Fiber

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 20% Glass Fiber Filler

### Material Notes:

Ryton® XE5515BL 15% glass fiber reinforced polyphenylene sulfide alloy compound provides excellent mechanical strength and chemical resistance at elevated temperatures and is suitable for extrusion or blow molding. Features: Good Chemical Resistance; Good Strength. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Ryton-XE5515BL-Polyphenylene-Sulfide-Alloy-PPS-Alloy-15-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ryton-XE5515BL-Polyphenylene-Sulfide-Alloy-PPS-Alloy-15-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ASTM D792
Filler Content	15 %	15 %	Glass Fiber
Water Absorption	0.010 % @Time 86400 sec	0.010 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 3.18 mm	0.0050 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
Melt Flow	12 g/10 min @Load 5.00 kg, Temperature 316 °C	12 g/10 min @Load 11.0 lb, Temperature 601 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	118	118	ASTM D785
Hardness, Rockwell R	87	87	ASTM D785
Tensile Strength	103 MPa	14900 psi	ASTM D638
Tensile Stress	110 MPa	16000 psi	ISO 527-2
Elongation at Break	2.9 %	2.9 %	ISO 527-2
	2.9 %	2.9 %	ASTM D638
Tensile Modulus	5.80 GPa	841 ksi	ISO 527-2
	6.21 GPa	901 ksi	ASTM D638

Flexural Strength Mechanical Properties	159 MPa Metric	23100 psi English	ASTM D790 Comments
	170 MPa	24700 psi	ISO 178
Flexural Modulus	5.50 GPa	798 ksi	ISO 178
	5.52 GPa	801 ksi	ASTM D790
Poissons Ratio	0.41	0.41	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)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	Notch A; ISO 180
Izod Impact, Unnotched (ISO)	45.0 kJ/m <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C @Temperature 100 - 200 Å°C	11.1 Åµin/in-Å°F @Temperature 212 - 392 Å°F	2
	30.0 Åµm/m-Å°C @Temperature -50.0 - 50.0 Å°C	16.7 Åµin/in-Å°F @Temperature -58.0 - 122 Å°F	2
CTE, linear, Transverse to Flow	55.0 Åµm/m-Å°C @Temperature -50.0 - 50.0 Å°C	30.6 Åµin/in-Å°F @Temperature -58.0 - 122 Å°F	TMA; ASTM E831
	90.0 Åµm/m-Å°C @Temperature 100 - 200 Å°C	50.0 Åµin/in-Å°F @Temperature 212 - 392 Å°F	TMA; ASTM E831
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft <sup>2</sup> - Å°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	190 Å°C	374 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Oxygen Index	50 %	50 %	ASTM D2863

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+15 ohm-cm Metric	1.00e+15 ohm-cm English	ASTM D257 Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Insulation Resistance	1.00e+13 ohm @Temperature 90.0 Â°C	1.00e+13 ohm @Temperature 194 Â°F	IEC 60167
Dielectric Constant	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	3.6 @Frequency 1000 Hz	3.6 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	24.0 kV/mm	610 kV/in	ASTM D149
Dissipation Factor	0.0020 @Frequency 1000 Hz	0.0020 @Frequency 1000 Hz	ASTM D150
Dissipation Factor	0.0050 @Frequency 1.00e+6 Hz	0.0050 @Frequency 1.00e+6 Hz	ASTM D150
Arc Resistance	100 sec	100 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	UL 746

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

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