

Ryton® XE5515BL

Polyphenylene Sulfide Alloy

Solvay Specialty Polymers

Message:

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.

General Information	
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight
Features	Good Chemical Resistance
	Good Strength
Uses	Automotive Applications
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Pellets
Processing Method	Blow Molding
	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (316°C/5.0 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage			
Flow : 3.20 mm	0.50	%	
Across Flow : 3.20 mm	0.60	%	
Water Absorption (23°C, 24 hr)	0.010	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	118		
R-Scale	87		

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	6210	MPa	ASTM D638
--	5800	MPa	ISO 527-2
Tensile Strength			
--	103	MPa	ASTM D638
--	110	MPa	ISO 527-2
Tensile Elongation (Break)	2.9	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	5520	MPa	ASTM D790

--	5500	MPa	ISO 178
Flexural Strength			
--	159	MPa	ASTM D790
--	170	MPa	ISO 178
Poisson's Ratio	0.41		ISO 527
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
3.18 mm	96	J/m	ASTM D256
--	10	kJ/m ²	ISO 180/A
Unnotched Izod Impact			
3.18 mm	690	J/m	ASTM D4812
--	45	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	190	°C	ASTM D648
CLTE			ASTM E831
Flow : -50 to 50°C	3.0E-5	cm/cm/°C	
Flow : 100 to 200°C	2.0E-5	cm/cm/°C	
Transverse : -50 to 50°C	5.5E-5	cm/cm/°C	
Transverse : 100 to 200°C	9.0E-5	cm/cm/°C	
Thermal Conductivity	0.23	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	24	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
25°C, 1 kHz	3.60		
25°C, 1 MHz	3.50		
Dissipation Factor			ASTM D150
25°C, 1 kHz	2.0E-3		
25°C, 1 MHz	5.0E-3		
Arc Resistance	100	sec	ASTM D495
Comparative Tracking Index (CTI)	150	V	UL 746
Insulation Resistance ¹ (90°C)	1.0E+13	ohms	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, Tested by CP Chemical)	V-0		UL 94
Oxygen Index	50	%	ASTM D2863
NOTE			
1.	95%RH, 48 hr		

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