

Ryton® XE5030BL

Polyphenylene Sulfide Alloy

Solvay Specialty Polymers

Message:

Ryton® XE5030BL 30% glass fiber reinforced polyphenylene sulfide alloy compound provides high ductility and impact resistance along with good thermal stability.

General Information			
UL YellowCard	E95746-102108336		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Ductile		
	Good Thermal Stability		
	High Impact Resistance		
Uses	Industrial Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 3.20 mm	0.20	%	
Across Flow : 3.20 mm	0.60	%	
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	86		
R-Scale	110		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	131	MPa	ASTM D638
--	135	MPa	ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	8960	MPa	ASTM D790
--	9000	MPa	ISO 178
Flexural Strength			
--	193	MPa	ASTM D790
--	200	MPa	ISO 178
Compressive Strength	210	MPa	ASTM D695

Poisson's Ratio	0.38		ISO 527
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
3.18 mm	96	J/m	ASTM D256
--	9.5	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)	250	°C	ASTM D648
CLTE			ASTM E831
Flow : -50 to 50°C	2.0E-5	cm/cm/°C	
Flow : 100 to 200°C	1.0E-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	0.27	W/m/K	
UL Temperature Rating	130	°C	UL 746B
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	22	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
25°C, 1 kHz	3.80		
25°C, 1 MHz	3.70		
Dissipation Factor			ASTM D150
25°C, 1 kHz	3.0E-3		
25°C, 1 MHz	9.0E-3		
Arc Resistance	124	sec	ASTM D495
Comparative Tracking Index (CTI)	100	V	UL 746
Insulation Resistance ¹ (90°C)	1.0E+11	ohms	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Oxygen Index	34	%	ASTM D2863
NOTE			
1.	95%RH, 48 hr		

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