

# Ryton® XE5030BL

## polyphenylene sulfide alloy

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

### General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> <li>• Asia Pacific</li> <li>• Europe</li> <li>• Latin America</li> <li>• North America</li> </ul>
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	<ul style="list-style-type: none"> <li>• Ductile</li> <li>• Good Thermal Stability</li> <li>• High Impact Resistance</li> </ul>
Uses	• Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets

### Physical

	Typical Value	Unit	Test method
Density / Specific Gravity	1.51		ASTM D792
Molding Shrinkage			
Flow : 3.20 mm	0.20	%	
Across Flow : 3.20 mm	0.60	%	
Water Absorption (24 hr, 23°C)	0.050	%	ASTM D570

### Mechanical

	Typical 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

	Typical Value	Unit	Test method
Notched Izod Impact			
3.18 mm	96	J/m	ASTM D256
--	9.5	kJ/m <sup>2</sup>	ISO 180/A

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Impact	Typical Value	Unit	Test method
Unnotched Izod Impact			
3.18 mm	690	J/m	ASTM D4812
--	45	kJ/m <sup>2</sup>	ISO 180
Hardness	Typical Value	Unit	Test method
Rockwell Hardness			ASTM D785
M-Scale	86		
R-Scale	110		
Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	250	°C	
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	Typical 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 <sup>1</sup> (90°C)	1.0E+11	ohms	
Flammability	Typical Value	Unit	Test method
Flame Rating (1.6 mm)	V-0		UL 94
Oxygen Index	34	%	ASTM D2863

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## Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> 95%RH, 48 hr



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