

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.

Commercial: Active			
Asia Pacific	Latin America		
• Europe	 North America 		
 Glass Fiber, 30% Filler b 	Glass Fiber, 30% Filler by Weight		
Ductile	 Good Thermal Stability 	High Impact Resistance	
 Industrial Applications 			
 RoHS Compliant 			
• Black			
Pellets			
	 Asia Pacific Europe Glass Fiber, 30% Filler b Ductile Industrial Applications RoHS Compliant Black 	 Asia Pacific Europe North America Glass Fiber, 30% Filler by Weight Ductile Good Thermal Stability Industrial Applications RoHS Compliant Black 	

Physical	Typical Value	Unit	Test method
Specific Gravity	1.51		ASTM D792
Molding Shrinkage			
Flow : 0.126 in	2.0E-3	in/in	
Across Flow : 0.126 in	6.0E-3	in/in	
Water Absorption (73°F, 24 hr)	0.050	%	ASTM D570
Mechanical	Typical Value	Unit	Test method
Tensile Strength			
	19000	psi	ASTM D638
	19600	psi	ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638 ISO 527-2
Flexural Modulus			
	1.30E+6	psi	ASTM D790
	1.31E+6	psi	ISO 178
Flexural Strength			
	28000	psi	ASTM D790
	29000	psi	ISO 178
Compressive Strength	30500	psi	ASTM D695
Poisson's Ratio	0.38		ISO 527
Impact	Typical Value	Unit	Test method
Notched Izod Impact			
0.125 in	1.8	ft·lb/in	ASTM D256
	4.5	ft·lb/in ²	ISO 180/A
Unnotched Izod Impact			
0.125 in	13	ft·lb/in	ASTM D4812
	21	ft·lb/in ²	ISO 180

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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
264 psi, Unannealed	482 9	°F	
CLTE			ASTM E831
Flow : -58 to 122°F	1.1E-5 i	in/in/°F	
Flow : 212 to 392°F	5.6E-6 i	in/in/°F	
Transverse : -58 to 122°F	3.1E-5 i	in/in/°F	
Transverse : 212 to 392°F	5.0E-5 i	in/in/°F	
Thermal Conductivity	1.9	Btu∙in/hr/ft²/°F	
UL Temperature Rating	266 9	°F	UL 746B
Electrical	Typical Value	Unit	Test method
Surface Resistivity	1.0E+16 (ASTM D257
Volume Resistivity	1.0E+15 (ohms∙cm	ASTM D257
Dielectric Strength	560	V/mil	ASTM D149
Dielectric Constant			ASTM D150
77°F, 1 kHz	3.80		
77°F, 1 MHz	3.70		
Dissipation Factor			ASTM D150
77°F, 1 kHz	3.0E-3		
77°F, 1 MHz	9.0E-3		
Arc Resistance	124 :	sec	ASTM D495
Comparative Tracking Index (CTI)	100 \	V	UL 746
Insulation Resistance ¹ (194°F)	1.0E+11 (ohms	
Flammability	Typical Value	Unit	Test method
Flame Rating (0.06 in)	V-0		UL 94
Oxygen Index	34	%	ASTM D2863

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Notes

Typical properties: these are not to be construed as specifications. $^{\rm 1}$ 95%RH, 48 hr

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