

Ryton® XE5430NA

polyphenylene sulfide alloy

Ryton® XE5430NA 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	• Asia Pacific • Europe	• Latin America • North America
Filler / Reinforcement	• Glass Fiber	
Features	• Chemical Resistant • Ductile	• Good Toughness • High Strength
RoHS Compliance	• RoHS Compliant	
Appearance	• Natural Color	
Forms	• Pellets	

Physical	Typical Value	Unit	Test method
Density ¹	1.52	g/cm ³	ISO 1183
Water Absorption (24 hr, 23°C)	0.020	%	ASTM D570
Mold Shrinkage ²			
Flow	0.20	%	
Transverse	0.60	%	

Mechanical	Typical Value	Unit	Test method
Tensile Strength	165	MPa	ISO 527
Tensile Elongation (Break)	2.5	%	ISO 527
Flexural Modulus	9000	MPa	ISO 178
Flexural Strength	240	MPa	ISO 178
Compressive Strength	215	MPa	ISO 604

Impact	Typical Value	Unit	Test method
Notched Izod Impact Strength	13	kJ/m ²	ISO 180/A
Unnotched Izod Impact Strength	65	kJ/m ²	ISO 180

Thermal	Typical Value	Unit	Test method
CLTE			ISO 11359-2
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	ASTM E1530
Heat Deflection Temperature - 1.8 MPa	255	°C	ASTM D648

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Electrical	Typical Value	Unit	Test method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
25°C, 1 kHz	3.70		
25°C, 1 MHz	3.70		
Dissipation Factor			ASTM D150
25°C, 1 kHz	2.0E-3		
25°C, 1 MHz	2.0E-3		
Arc Resistance	125	sec	ASTM D495

Flammability	Typical Value	Unit	Test method
Flame Rating ³ (1.6 mm)	V-0		UL 94

Additional Information

Test specimen molding conditions: Stock temperature, 315-345°C; Mold temperature, 135°C

Notes

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

¹ Method A

² Measured on 102 mm x 102 mm x 3.2 mm plaques, edge gated.

³ This product is not currently UL listed; test results indicate this level of performance.



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