

Ryton[®] XE5430NA polyphenylene sulfide

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 	• Lo	atin America	
	• Europe	• N	North America	
Filler / Reinforcement	 Glass Fiber 			
Features	Chemical ResistantDuctile	Good ToughnessHigh Strength		
RoHS Compliance	 RoHS Compliant 			
Appearance	Natural Color			
Forms	• Pellets			
Physical		Typical Value	Unit	Test method
Density		1.52	g/cm³	ISO 1183
Water Absorption				
24 hr, 23°C		0.020	%	ASTM D570 ISO 62
Saturation, 23°C 1		0.13	%	Internal Method
Equilibrium, 23°C, 50% ¹		0.11	%	Internal Method
Mold Shrinkage ²				
Flow		0.20	%	
Transverse		0.60	%	
Mechanical		Typical Value	Unit	Test method
Tensile Modulus		10500	МРа	ISO 527-1
Tensile Stress				ISO 527-2
Break		170	MPa	
Break ³		171	MPa	
Tensile Strain				ISO 527-2
Break		2.4	%	
Break ³		2.3	%	
Flexural Modulus		9500	МРа	ISO 178
Flexural Strength		250	МРа	ISO 178
Compressive Strength		215	МРа	ISO 604

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Impact	Typical Value	Unit	Test method
Charpy Notched Impact Strength			ISO 179
	13	kJ/m²	
3	11	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
	65	kJ/m²	
3	62	kJ/m²	
Notched Izod Impact Strength	12	kJ/m²	ISO 180/A
Unnotched Izod Impact Strength	60	kJ/m²	ISO 180
The ages of	Typical Value	l loit	Toot month and
Thermal Malting Toppograture	Typical Value 280		ISO 11357-3
Melting Temperature	280	<u> </u>	
CLTE	205 5	cm/cm/°C	ISO 11359-2
Flow: 100 to 50°C			
Flow: 100 to 200°C		cm/cm/°C	
Transverse: -50 to 50°C		cm/cm/°C	
Transverse: 100 to 200°C		cm/cm/°C	
Thermal Conductivity		W/m/K	ASTM E1530
Heat Deflection Temperature - 1.8 MPa	255	°C	ASTM D648
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		
1 MHz	3.70		
Dissipation Factor			ASTM D150
25°C, 1 kHz	2.0E-3		
1 MHz	2.0E-3		
Arc Resistance	125	sec	ASTM D495
Comparative Tracking Index	150	V	IEC 60112
Flammability	Typical Value	Unit	Test method
Flame Rating (3.0 mm)	V-0		UL 94
3 (4			
Injection	Typical Value		
Drying Temperature	85	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	295 to 305	°C	
Middle Temperature	300 to 310	°C	
Front Temperature	305 to 315	°C	
Nozzle Temperature	305 to 315	°C	
Processing (Melt) Temp	310 to 320	°C	
Mold Temperature	135 to 150	°C	
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Notes

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

- ¹ Solvay Test Method
- ² Measured on 102 mm x 102 mm x 3.2 mm plaques, edge gated.
- ³ Conditioned data is meant to simulate 23°C 50% RH equilibrium values. Conditioning of specimens was achieved per ISO 1110 by exposing specimens for 11 days, 70°C and 62% RH.

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