

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.

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Material Status	 Commercial: Active 				
Availability	Asia Pacific	• Lo	• Latin America		
Availability	 Europe North America 				
Filler / Reinforcement	 Glass Fiber 				
Features	 Chemical Resistant 	• Good Toughness • High Strength			
	Ductile				
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°C1		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	MPa	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	MPa	ISO 178	
Flexural Strength		250	MPa	ISO 178	
Compressive Strength		215	MPa	ISO 604	

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
		kJ/m²	
3		kJ/m²	
Notched Izod Impact Strength		kJ/m²	ISO 180/A
Unnotched Izod Impact Strength	60	kJ/m²	ISO 180
Thermal	Typical Value	Unit	Test method
Melting Temperature	280		ISO 11357-3
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
Flactuical	Typical Value	l lmit	To at mostle and
Electrical Valuma Pagiativity	Typical Value	ohms·cm	Test method ASTM D257
Volume Resistivity Dielectric Strength		kV/mm	ASTM D257
Dielectric Strength Dielectric Constant	20	KV/IIIIII	ASTM D149
25°C, 1 kHz	3.70		ASTIVI DISO
1 MHz	3.70		
Dissipation Factor	0.70		ASTM D150
25°C, 1 kHz	2.0E-3		ACTIVIDIO
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
Injection	Typical Value	Unit	
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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