

Ryton° QA200N polyphenylene sulfide

Ryton® QA200N (granular powder) unfilled polyphenylene sulfide exhibits excellent thermal stability and chemical resistance.

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General					
Material Status	 Commercial: Active 				
A	Asia Pacific	• Lo	• Latin America		
Availability	• Europe	• N	 North America 		
Features	 Chemical Resistant 	• G	ood Thermal Stability		
Uses	 Compounding 				
RoHS Compliance	 RoHS Compliant 				
Appearance	 Natural Color 				
Forms	• Powder				
Processing Method	 Injection Molding 				
Physical		Typical Value	Unit	Test method	
Density / Specific Gravity		1.34		ASTM D792	
Melt Mass-Flow Rate (MFR) (316°C/5.0 kg)		100	g/10 min	ASTM D1238	
Molding Shrinkage - Flow (3.20 mm)		1.0	%		
Water Absorption (24 hr, 2	3°C)	0.050	%	ASTM D570	
Ash Content		0.10	wt%	ISO 3451-1	
Volatiles (150°C)		< 0.30	wt%		
Mechanical		Typical Value	Unit	Test method	
Tensile Modulus		3400	MPa	ISO 527-1	
Tensile Stress		80.0	MPa	ISO 527-2	
Tensile Strain (Break)		4.0	%	ISO 527-2	
Flexural Modulus		3400	MPa	ISO 178	
Flexural Stress		140	MPa	ISO 178	
Impact		Typical Value	Unit	Test method	
Notched Izod Impact					
3.18 mm		53	J/m	ASTM D256	
		4.0	kJ/m²	ISO 180/A	

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Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160 9	°C	
1.8 MPa, Unannealed	95.0	°C	
Glass Transition Temperature	90.0	°C	ISO 11357-2
Vicat Softening Temperature	> 180 (°C	ISO 306
Melting Temperature	280 (°C	ISO 11357-3
CLTE - Flow			ASTM E831
-50 to 50°C	5.0E-5	cm/cm/°C	
100 to 200°C	1.2E-4	cm/cm/°C	
Thermal Conductivity	0.29	W/m/K	
Electrical	Typical Value	Unit	Test method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	24	kV/mm	ASTM D149
Dielectric Constant (25°C, 1 MHz)	3.20		ASTM D150
Dissipation Factor (25°C, 1 MHz)	2.0E-3		ASTM D150
Flammability	Typical Value	Unit	Test method
Flame Rating (1.6 mm, Tested by CP Chemical)	V-0		UL 94
Oxygen Index	44 '	%	ASTM D2863

Notes

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

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Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

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¹ Procedure B