

## Solvay Specialty Polymers Ryton® QA200N Polyphenylene Sulfide (PPS)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS); Molded

### Material Notes:

Ryton® QA200N (granular powder) unfilled polyphenylene sulfide exhibits excellent thermal stability and chemical resistance. Features: Good Chemical Resistance; Good Thermal Stability. Additional Properties: Ash Content - ISO 3451-1 0.1 wt%; Volatiles - (150°C): < 0.3 wt%. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Ryton-QA200N-Polyphenylene-Sulfide-PPS.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ryton-QA200N-Polyphenylene-Sulfide-PPS.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.010 cm/cm @Thickness 3.18 mm	0.010 in/in @Thickness 0.125 in	
Melt Flow	100 g/10 min @Load 5.00 kg, Temperature 316 °C	100 g/10 min @Load 11.0 lb, Temperature 601 °F	Procedure B; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Stress	80.0 MPa	11600 psi	ISO 527-2
Elongation at Break	4.0 %	4.0 %	ISO 527-2
Tensile Modulus	3.40 GPa	493 ksi	ISO 527-2
Flexural Strength	140 MPa	20300 psi	ISO 178
Flexural Modulus	3.40 GPa	493 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm @Thickness 3.18 mm	0.993 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	Notch A; ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C @Temperature -50.0 - 50.0 °C	27.8 µin/in-°F @Temperature -58.0 - 122 °F	2
	120 µm/m-°C	66.7 µin/in-°F	

Thermal Properties	Metric @ Temperature 100 - 200 Â°C	English @ Temperature 212 - 392 Â°F	Comments
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ftÂ²- Â°F	ASTM C177
Melting Point	280 Â°C	536 Â°F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	160 Â°C	320 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C	203 Â°F	Unannealed; ASTM D648
Vicat Softening Point	>= 180 Â°C	>= 356 Â°F	ISO 306
Glass Transition Temp, Tg	90.0 Â°C	194 Â°F	ISO 11357-2
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Oxygen Index	44 %	44 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	3.2 @Frequency 1.00e+6 Hz	3.2 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	24.0 kV/mm	610 kV/in	ASTM D149
Dissipation Factor	0.0020 @Frequency 1.00e+6 Hz	0.0020 @Frequency 1.00e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Natural	
Form	Powder	

Processing Technique Descriptive Properties	Injection Molding Value	Comments
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

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