

# Ryton® QA200P

## polyphenylene sulfide

Ryton® QA200P (pelletized) unfilled polyphenylene sulfide exhibits excellent thermal stability and chemical resistance and may be used in injection molding processes.

### General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> <li>• Asia Pacific</li> <li>• Europe</li> <li>• Latin America</li> <li>• North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>• Chemical Resistant</li> <li>• Good Thermal Stability</li> </ul>
Uses	• Compounding
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

### Physical

	Typical Value	Unit	Test method
Density / Specific Gravity	1.34		ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup> (316°C/5.0 kg)	100	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.0	%	
Water Absorption (24 hr, 23°C)	0.050	%	ASTM D570
Ash Content	0.1	wt%	ISO 3451-1
Volatiles (150°C)	< 0.3	wt%	

### Mechanical

	Typical Value	Unit	Test method
Tensile Modulus	3400	MPa	ISO 527-2
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/m <sup>2</sup>	ISO 180/A

### Thermal

	Typical Value	Unit	Test method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160	°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

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Thermal	Typical Value	Unit	Test method
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.

<sup>1</sup> Procedure B



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