Ryton® M2000 SFP
polyphenylene sulfide

Ryton® M2000 SFP, polyphenylene sulfide (PPS), is a nominal 25 micron powder grade, designed for applications including coating, sintering and compression molding. Ryton® PPS exhibits excellent thermal stability and chemical resistance.

General		
Material Status	• Limited Distribution	
Availability	• Asia Pacific • Europe	• Latin America • North America
Features	• Chemical Resistant • Good Thermal Stability	• Wear Resistant
Uses	• Coating Applications	• Industrial Applications
RoHS Compliance	• RoHS Compliant	
Appearance	• Natural Color	
Forms	• Powder	
Processing Method	• Coating • Compression Molding	• Sintering

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.34		ASTM D792
Melt Mass-Flow Rate (MFR) [1] (316°C/5.0 kg)	100	g/10 min	ASTM D1238
Water Absorption (24 hr, 23°C)	0.050	%	ASTM D570
Ash Content	0.10	wt%	ISO 3451-1
Average Particle Size - D50	25	µm	Internal Method
Volatiles (150°C)	< 0.30	wt%	

Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load			ASTM D648
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 (-50 to 50°C)	5.0E-5	cm/cm/°C	ASTM E831

Electrical	Typical Value	Unit	Test method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
1.50mm thick specimen	24	kV/mm	
100µm thick film	90	kV/mm	
Dielectric Constant (25°C, 1 MHz)	3.20		ASTM D150
Dissipation Factor (25°C, 1 MHz)	2.0E-3		ASTM D150

Notes

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

[1] Procedure B

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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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