

RTP 2103-6

Polyether Imide

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Heat resistance, high		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.23	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength	152	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	214	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	480	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	221	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.20		ASTM D150
Dissipation Factor (1 MHz)	1.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94

Additional Information		
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 3mil/in.Tensile Elongation, ASTM D-638: 3-4%		
Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Suggested Max Regrind	20	%
Rear Temperature	354 - 399	°C
Middle Temperature	354 - 399	°C
Front Temperature	354 - 399	°C
Mold Temperature	135 - 177	°C
Injection Pressure	103 - 138	MPa
Back Pressure	0.345 - 0.517	MPa
Clamp Tonnage	6.9 - 11	kN/cm ²

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Recommended distributors for this material

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