

RTP 1602

Polyarylsulfone
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.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	High strength		
	Good toughness		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.40	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6210	MPa	ASTM D638
Tensile Strength	117	MPa	ASTM D638
Tensile Elongation (Break)	3.4	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	174	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	207	°C	ASTM D648
CLTE - Flow	5.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.27	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.70		ASTM D150
Dissipation Factor (1 MHz)	7.0E-3		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 7mil/in.			
Injection	Nominal Value	Unit	
Rear Temperature	343 - 399	°C	
Middle Temperature	343 - 399	°C	
Front Temperature	343 - 399	°C	
Mold Temperature	121 - 177	°C	
Injection Pressure	103 - 138	MPa	

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Recommended distributors for this material

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