

RTP 1407

Polyethersulfone
RTP Company

Message:
Glass Fiber

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Moisture Content	0.040	%	
Primary Additive	40	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12400	MPa	ASTM D638
Tensile Strength	159	MPa	ASTM D638
Tensile Elongation (Yield)	2.1	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	224	MPa	ASTM D790
Compressive Strength	152	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	96	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	670	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	221	°C	ASTM D648
1.8 MPa, not annealed	216	°C	ASTM D648
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM E831
Thermal Conductivity ¹	0.36	W/m/K	ASTM E1530
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+12	ohms · cm	ASTM D257
Dielectric Strength ² (in Oil)	15	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.30		ASTM D150
Dissipation Factor (1 MHz)	7.0E-3		ASTM D150
Arc Resistance	80.0	sec	ASTM D495

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	6.0	hr	
Dew Point	-31.7	°C	
Processing (Melt) Temp	343 - 377	°C	
Mold Temperature	135 - 177	°C	
Injection Pressure	68.9 - 103	MPa	
Injection instructions			
Desiccant Type Dryer Required.			
NOTE			
1.	Through-plane		
2.	Method A (short time)		

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Recommended distributors for this material

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