RTP 1403

Polyethersulfone

RTP Company

Message:

Glass Fiber

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.51	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.40	%	ASTM D570
Moisture Content	0.040	%	
Primary Additive	20	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6890	MPa	ASTM D638
Tensile Strength	131	MPa	ASTM D638
Tensile Elongation (Yield)	2.9	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength	193	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	590	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	2.9E-5	cm/cm/°C	ASTM E831
Thermal Conductivity [1]	0.30	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)	3.90		ASTM D150
Dissipation Factor (1 MHz)	7.0E-3		ASTM D150
Arc Resistance	70.0	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)

Recommended distributors for this material

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