RTP 2102

Polyether Imide

RTP Company

Message:

Glass Fiber

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.37	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.22	%	ASTM D570
Moisture Content	0.040	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6890	MPa	ASTM D638
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Yield)	3.5	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	200	MPa	ASTM D790
Compressive Strength	159	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	640	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	207	°C	ASTM D648
CLTE - Flow	3.1E-5	cm/cm/°C	ASTM E831
Thermal Conductivity [1]	0.23	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)	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.60		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
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	4.0	hr
Dew Point	-28.9	°C
Processing (Melt) Temp	354 - 399	°C
Mold Temperature	135 - 177	°C
Injection Pressure	82.7 - 124	MPa

Injection instructions
Desiccant Type Dryer Required.

NOTE	
1.	Through-plane
2.	Method A (short time)

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