

RTP 2100

Polyether Imide

RTP Company

Message:

RTP 2100 is a polyetherimide (PEI) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding. The main characteristics of RTP 2100 are: flame retardant/rated flame.

General Information			
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.25	%	ASTM D570
Moisture Content	0.040	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3310	MPa	ASTM D638
Tensile Strength	109	MPa	ASTM D638
Tensile Elongation (Yield)	6.0 - 10	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	1300	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	200	°C	ASTM D648
CLTE - Flow	5.6E-5	cm/cm/°C	ASTM E831
Thermal Conductivity ¹	0.22	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)	3.20		ASTM D150
Dissipation Factor (1 MHz)	4.0E-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

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

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