

RTP 1400 N

Polyethersulfone

RTP Company

Message:

High Viscosity

General Information			
Features	Viscosity, High		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (385°C/2.16 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.54	%	ASTM D570
Moisture Content	0.040	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	127		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2690	MPa	ASTM D638
Tensile Strength	82.7	MPa	ASTM D638
Tensile Elongation (Yield)	6.5	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength	111	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
CLTE - Flow	4.9E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+12	ohms · cm	ASTM D257
Dielectric Strength ¹ (in Oil)	15	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50		ASTM D150
Dissipation Factor (1 MHz)	5.6E-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	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.
- Method A (short time)

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