

RTP 900

Polysulfone

RTP Company

Technical Data

Product Description

RTP 900 is a Polysulfone (PSU) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of RTP 900: Flame Rated.

General

RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.24 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.70 %	ASTM D955
Water Absorption (23°C, 24 hr)	0.22 %	ASTM D570
Moisture Content	0.15 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2550 MPa	ASTM D638
Tensile Strength	72.4 MPa	ASTM D638
Tensile Elongation (Yield)	> 10 %	ASTM D638
Flexural Modulus	2690 MPa	ASTM D790
Flexural Strength	103 MPa	ASTM D790
Compressive Strength	96.5 MPa	ASTM D695

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (3.20 mm)	53 J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	2400 J/m	ASTM D4812

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	120	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	181 °C	
1.8 MPa, Unannealed	174 °C	
CLTE - Flow	5.6E-5 cm/cm/°C	ASTM E831
Thermal Conductivity ³	0.26 W/m/K	ASTM E1530

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	> 1.0E+15 ohm·cm	ASTM D257
Dielectric Strength ⁴ (in Oil)	17 kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.00	ASTM D150
Dissipation Factor (1 MHz)	3.0E-3	ASTM D150
Arc Resistance	122 sec	ASTM D495

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.50 mm, ** Values per RTP Company testing.	V-1	

Injection	Nominal Value Unit
Drying Temperature	135 °C
Drying Time	4.0 hr
Dew Point	-31.7 °C

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Injection	Nominal Value Unit
Processing (Melt) Temp	332 to 371 °C
Mold Temperature	93.3 to 149 °C
Injection Pressure	68.9 to 124 MPa
