

RTP 900

Polysulfone

RTP Company

Message:

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 Information			
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	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
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
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 ¹	0.26	W/m/K	ASTM E1530
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength ² (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 (1.50 mm, ** Values per RTP Company testing.)		V-1	UL 94
Injection	Nominal Value	Unit	
Drying Temperature	135	°C	
Drying Time	4.0	hr	
Dew Point	-31.7	°C	
Processing (Melt) Temp	332 to 371	°C	
Mold Temperature	93.3 to 149	°C	
Injection Pressure	68.9 to 124	MPa	
NOTE			
1.	Through-plane		
2.	Method A (Short-Time)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

