

RTP 901

Polysulfone
RTP Company

Message:
Glass Fiber

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.50	%	ASTM D955
Moisture Content	0.15	%	
Primary Additive	10	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength	82.7	MPa	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	690	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	182	°C	
1.8 MPa, Unannealed	177	°C	
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM E831
Thermal Conductivity ¹	0.27	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)	17	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
Arc Resistance	100	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm, ** Values per RTP Company testing.)		
	VTM-2	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)	

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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



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