

RTP 1300 TC-I-20

Polyphenylene Sulfide

RTP Company

Message:

"Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade."

General Information			
Features	Electrically Insulating		
	Thermally Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.90	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.30	%	ASTM D955
Moisture Content	0.040	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15900	MPa	ASTM D638
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation (Yield)	< 1.0	%	ASTM D638
Flexural Modulus	15900	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	190	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 260	°C	ASTM D648
CLTE			ASTM E831
Flow	2.0E-5	cm/cm/°C	
Transverse	4.1E-5	cm/cm/°C	
Thermal Conductivity ¹	1.0	W/m/K	ASTM E1530
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ²	> 1.0E+12	ohms	ASTM D257
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	

Processing (Melt) Temp	307 to 329	°C
Mold Temperature	135 to 177	°C
Injection Pressure	68.9 to 103	MPa

NOTE		
1.	Through-plane	
2.	ESD STM11.11	

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Recommended distributors for this material

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