

RTP 1300 TC-I-20 SE

Polyphenylene Sulfide

RTP Company

Message:

Thermally Conductive - Electrically Insulative - Flame Retardant

General Information			
Features	Electrically Insulating		
	Flame Retardant		
	Thermally Conductive		
RoHS Compliance	Contact Manufacturer		
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	> 1.0E+12	ohms	ASTM D257
Dielectric Constant (1 MHz)	10.1		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	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

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