RTP 1300 TC-C-30

Polyphenylene Sulfide

RTP Company

Message:

Thermally Conductive - Electrically Conductive - Flame Retardant

General Information			
Features	Electrically Conductive Flame Retardant Thermally Conductive		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.70	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20	%	ASTM D955
Moisture Content	0.040	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	26200	MPa	ASTM D638
Tensile Strength	62.1	MPa	ASTM D638
Tensile Elongation (Yield)	< 1.0	%	ASTM D638
Flexural Modulus	20000	MPa	ASTM D790
Flexural Strength	86.2	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	27	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	80	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 260	°C	ASTM D648
Thermal Conductivity			
-- [1]	2.3	W/m/K	ASTM E1530
-- [2]	8.0	W/m/K	ASTM E1461
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+4	ohms	ASTM D257
Volume Resistivity	< 1.0E+2	ohms·cm	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.	In-plane

Recommended distributors for this material

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