

RTP 1302

Polyphenylene Sulfide
RTP Company

Message:

Glass Fiber - UL94 V-0

General Information			
UL YellowCard	E84658-251522		
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Moisture Content	0.040	%	
Primary Additive	15	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength	89.6	MPa	ASTM D638
Tensile Elongation (Yield)	1.2	%	ASTM D638
Flexural Modulus	7930	MPa	ASTM D790
Flexural Strength	117	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)	210	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	260	°C	
1.8 MPa, Unannealed	246	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹ (in Oil)	14	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.30		ASTM D150
Dissipation Factor (1 MHz)	1.0E-3		ASTM D150
Arc Resistance	100	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 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. Method A (Short-Time)

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