

RTP 1400 R-5100

Polyphenylsulfone

RTP Company

Message:

RTP 1400 R-5100 is a polyphenylene sulfone (PPSU) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding. The main characteristics of RTP 1400 R-5100 are: flame retardant/rated flame.

General Information			
UL YellowCard	E84658-556672		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (365°C/5.0 kg)	14 - 22	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.37	%	ASTM D570
Moisture Content	0.040	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2340	MPa	ASTM D638
Tensile Strength	69.6	MPa	ASTM D638
Tensile Elongation (Yield)	90	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	91.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	690	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	209	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+12	ohms · cm	ASTM D257
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	
Dew Point	-31.7	°C	
Processing (Melt) Temp	343 - 388	°C	
Mold Temperature	138 - 163	°C	
Injection Pressure	68.9 - 138	MPa	
Injection instructions			

Desiccant Type Dryer Required.

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Recommended distributors for this material

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