

# RTP 1305

Polyphenylene Sulfide

RTP Company

PROSPECTOR®

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## Technical Data

### Product Description

Glass Fiber - UL94 V-0

### General

Material Status	• Commercial: Active
UL Yellow Card <sup>1</sup>	• E84658-251522
Search for UL Yellow Card	• RTP Company • RTP
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.58 g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10 to 0.30 %	ASTM D955
Water Absorption (24 hr, 23°C)	0.020 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	13100 MPa	ASTM D638
Tensile Strength	152 MPa	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0 %	ASTM D638
Flexural Modulus	12400 MPa	ASTM D790
Flexural Strength	200 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (3.18 mm)	91 J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430 J/m	ASTM D4812

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	122	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	266 °C	ASTM D648

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	> 1.0E+16 ohms·cm	ASTM D257
Dielectric Strength in Oil, Method A (Short-Time)	14 kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50	ASTM D150
Dissipation Factor (1 MHz)	1.0E-3	ASTM D150
Arc Resistance	120 sec	ASTM D495

Flammability	Nominal Value Unit	Test Method
Flame Rating (0.8 mm)	V-0	UL 94

Additional Information	Nominal Value Unit
Primary Additive	30 %

Injection	Nominal Value Unit
Drying Temperature	149 °C
Drying Time	6.0 hr
Suggested Max Moisture	0.040 %
Processing (Melt) Temp	307 to 329 °C
Mold Temperature	135 to 177 °C
Injection Pressure	68.9 to 103 MPa



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### Notes

<sup>1</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>2</sup> Typical properties: these are not to be construed as specifications.



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### Where to Buy

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#### Supplier

##### **RTP Company**

Winona, Winona USA

**Telephone:** 800-433-4787

**Web:** <http://www.rtpcompany.com/>

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#### Distributor

Please contact the supplier to find a distributor for RTP 1305

