

RTP 301 FR UV

Polycarbonate

RTP Company

Technical Data

Product Description

Glass Fiber - Flame Retardant - Non-PBBO/E

General

Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• Flame Retardant
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical

	Nominal Value Unit	Test Method
Density / Specific Gravity	1.26 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	5.0 to 15 g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.50 %	ASTM D955
Water Absorption (24 hr, 23°C)	0.10 %	ASTM D570
Moisture Content	0.020 %	

Mechanical

	Nominal Value Unit	Test Method
Tensile Modulus	3790 MPa	ASTM D638
Tensile Strength	57.9 MPa	ASTM D638
Tensile Elongation (Yield)	> 10 %	ASTM D638
Flexural Modulus	3450 MPa	ASTM D790
Flexural Strength	100 MPa	ASTM D790

Impact

	Nominal Value Unit	Test Method
Notched Izod Impact (3.20 mm)	210 J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break	ASTM D4812

Hardness

	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	118	ASTM D785

Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	146 °C	
1.8 MPa, Unannealed	141 °C	

Electrical

	Nominal Value Unit	Test Method
Volume Resistivity	> 1.0E+16 ohms·cm	ASTM D257

Flammability

	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.5 mm	V-0	
3.0 mm	5VB	
Glow Wire Flammability Index (3.0 mm)	960 °C	IEC 60695-2-12

Additional Information

	Nominal Value Unit
Primary Additive	10 %

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Injection	Nominal Value Unit
Drying Temperature	121 °C
Drying Time	4.0 hr
Dew Point	-29 °C
Processing (Melt) Temp	288 to 316 °C
Mold Temperature	82 to 121 °C
Injection Pressure	68.9 to 103 MPa

Injection Notes

Desiccant Type Dryer Required.