

RTP 100 FR UV

Polypropylene
RTP Company

Technical Data

Product Description

Flame Retardant - Non-PBDE/PBB

General

Features	• Flame Retardant
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical

	Nominal Value Unit	Test Method
Density / Specific Gravity	0.990 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.4 to 2.0 %	ASTM D955

Mechanical

	Nominal Value Unit	Test Method
Tensile Modulus	1030 MPa	ASTM D638
Tensile Strength	29.6 MPa	ASTM D638
Tensile Elongation (Yield)	> 10 %	ASTM D638
Flexural Modulus	1310 MPa	ASTM D790
Flexural Strength	37.9 MPa	ASTM D790

Impact

	Nominal Value Unit	Test Method
Notched Izod Impact (3.20 mm)	37 J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	1300 J/m	ASTM D4812

Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	104 °C	
1.8 MPa, Unannealed	54.4 °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
3.0 mm, ** Values per RTP Company testing.	V-0	

Injection

	Nominal Value Unit
Drying Temperature	79 °C
Drying Time	2.0 hr
Processing (Melt) Temp	191 to 232 °C
Mold Temperature	32 to 66 °C
Injection Pressure	68.9 to 103 MPa

Notes

¹ Typical properties: these are not to be construed as specifications.