

RTP 100 FR A HF

Polypropylene Homopolymer

RTP Company

Technical Data

Product Description

Warning: The status of this material is 'Commercial: Limited Issue'

The data for this material has not been recently verified.

Please contact RTP Company for current information prior to specifying this grade.

General

Additive	• Flame Retardant	
Features	• High Flow	
RoHS Compliance	• Contact Manufacturer	
Appearance	• Black	• Natural Color
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.998 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0 %	ASTM D955
Water Absorption (23°C, 24 hr)	0.010 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1380 MPa	ASTM D638
Tensile Strength	27.6 MPa	ASTM D638
Tensile Elongation (Break)	50 %	ASTM D638
Flexural Modulus	1520 MPa	ASTM D790
Flexural Strength	40.0 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (3.18 mm)	53 J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1100 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	48.9 °C	

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+16 ohm·cm	ASTM D257

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.794 mm, Values per RTP Company testing.	V-0	

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in: 25mil/in
-Preliminary Product Data per RTP Co.-

Injection	Nominal Value Unit
Drying Temperature	82.2 °C
Drying Time	2.0 hr
Suggested Max Regrind	20 %
Rear Temperature	218 to 249 °C
Middle Temperature	218 to 249 °C

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Injection	Nominal Value Unit
Front Temperature	218 to 249 °C
Mold Temperature	32.2 to 65.6 °C
Injection Pressure	68.9 to 103 MPa