

RTP 103 GB 20

Polypropylene Homopolymer

RTP Company

PROSPECTOR[®]

www.ulprospector.com

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.

-Preliminary Product Data per RTP Co.-

General

Material Status	• Limited Issue		
Search for UL Yellow Card	• RTP Company • RTP		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Bead, 20% Filler by Weight	• Glass Fiber, 20% Filler by Weight	
RoHS Compliance	• Contact Manufacturer		
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.23 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 %	ASTM D955
Water Absorption (24 hr, 23°C)	0.010 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	5520 MPa	ASTM D638
Tensile Strength	41.4 MPa	ASTM D638
Tensile Elongation (Break)	2.5 %	ASTM D638
Flexural Modulus	4480 MPa	ASTM D790
Flexural Strength	62.1 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (3.18 mm)	43 J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	370 J/m	ASTM D4812

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	149 °C	
1.8 MPa, Unannealed	135 °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
1.6 mm, Values per RTP Company testing.	HB	

Additional Information

Mold Shrinkage, ASTM D-955, 0.25in: 5mil/in.



Injection	Nominal Value Unit
Drying Temperature	82 °C
Drying Time	2.0 hr
Suggested Max Regrind	20 %
Rear Temperature	218 to 274 °C
Middle Temperature	218 to 274 °C
Front Temperature	218 to 274 °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.



Where to Buy

Supplier

RTP Company
Winona, MN USA
Telephone: 800-433-4787
Web: <http://www.rtpcompany.com/>

Distributor

Please contact the supplier to find a distributor for RTP 103 GB 20

