

RTP 200A GB 20

Polyamide 6

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

Filler / Reinforcement	• Glass Bead, 20% Filler by Weight
RoHS Compliance	• Contact Manufacturer
Appearance	• Black • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.26	1.26 g/cm ³	ASTM D792
Molding Shrinkage - Flow (0.125 in (3.18 mm))	0.011 in/in	1.1 %	ASTM D955
Water Absorption (73°F (23°C), 24 hr)	1.4 %	1.4 %	ASTM D570

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	500000 psi	3450 MPa	ASTM D638
Tensile Strength	10000 psi	68.9 MPa	ASTM D638
Tensile Elongation (Break)	5.0 %	5.0 %	ASTM D638
Flexural Modulus	600000 psi	4140 MPa	ASTM D790
Flexural Strength	16000 psi	110 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 in (3.18 mm))	0.80 ft·lb/in	43 J/m	ASTM D256
Unnotched Izod Impact (0.125 in (3.18 mm))	6.0 ft·lb/in	320 J/m	ASTM D4812

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

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	380 °F	193 °C	
264 psi (1.8 MPa), Unannealed	280 °F	138 °C	

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	1.0E+14 ohm·cm	1.0E+14 ohm·cm	ASTM D257

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.0625 in (1.59 mm), RTP Tested	HB	HB	

Additional Information

Molding Shrinkage, ASTM D955: 1/8 in section 0.011 in/in, ¼ in section 0.016 in/in

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	175 °F	79.4 °C
Drying Time	4.0 hr	4.0 hr
Suggested Max Moisture	0.20 %	0.20 %
Suggested Max Regrind	20 %	20 %

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Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	425 to 560 °F	218 to 293 °C
Middle Temperature	425 to 560 °F	218 to 293 °C
Front Temperature	425 to 560 °F	218 to 293 °C
Mold Temperature	150 to 225 °F	65.6 to 107 °C
Injection Pressure	10000 to 15000 psi	68.9 to 103 MPa