

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.

1 2	1 1 5 6	0		
General				
Material Status	 Limited Issue 			
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North AmericaSouth America	
Filler / Reinforcement	 Glass Fiber Reinforcement, 	25% Filler by Weight		
RoHS Compliance	 Contact Manufacturer 			
Appearance	Black	 Natural Color 		
Forms	Pellets			
Processing Method	 Injection Molding 			

Physical	Nominal Value (E	English)	Nominal Value	(SI)	Test Method
Specific Gravity	1.32		1.32		ASTM D792
Molding Shrinkage - Flow					ASTM D955
0.125 in (3.18 mm), Injection Molded	0.0030 in	/in	0.30	%	
0.250 in (6.35 mm), Injection Molded	0.0060 in	/in	0.60	%	
Water Absorption (24 hr, 73°F (23°C))	0.75 %)	0.75	%	ASTM D570
Mechanical	Nominal Value (E	English)	Nominal Value	(SI)	Test Method
Tensile Modulus (Injection Molded)	1.20E+6 ps	si	8270	MPa	ASTM D638
Tensile Strength	22000 ps	si	152	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	3.0 %)	3.0	%	ASTM D638
Flexural Modulus (Injection Molded)	1.20E+6 ps	si	8270	MPa	ASTM D790
Flexural Strength (Injection Molded)	32900 ps	si	227	MPa	ASTM D790
Compressive Strength	19700 ps	si	136	MPa	ASTM D695
Impact	Nominal Value (E	English)	Nominal Value	(SI)	Test Method
Notched Izod Impact					ASTM D256
0.125 in (3.18 mm), Injection Molded	1.20 ft·	·lb/in	64.0	J/m	
Unnotched Izod Impact (0.125 in (3.18 mm))	12.0 ft·	·lb/in	641	J/m	ASTM D256
Hardness	Nominal Value (E	English)	Nominal Value	(SI)	Test Method
Rockwell Hardness (R-Scale)	120		120		ASTM D785
Thermal	Nominal Value (E	English)	Nominal Value	(SI)	Test Method
Deflection Temperature Under Load					ASTM D648
66 psi (0.45 MPa), Unannealed, Injection Molded	489 °F	=	254	°C	
264 psi (1.8 MPa), Unannealed, Injection Molded	475 °F		246	°C	
CLTE - Flow	0.000022 in	/in/°F	0.000040	cm/cm/°C	ASTM D696
Electrical	Nominal Value (E	English)	Nominal Value	(SI)	Test Method
Volume Resistivity	1.0E+14 of	hm∙cm	1.0E+14	ohm∙cm	ASTM D257
Dielectric Strength ²	500 V/	/mil	20	kV/mm	ASTM D149
Dielectric Constant (1E+6 Hz)	3.80		3.80		ASTM D150
Dissipation Factor (1E+6 Hz)	0.017		0.017		ASTM D150
Arc Resistance	115 se	ec	115	sec	ASTM D495
Flammability	Nominal Value (E	English)	Nominal Value	(SI)	Test Method
Flame Rating - UL (0.0591 in (1.50 mm))	HB		HB		UL 94

Additional Information

The value listed as Flammibility, UL 94, was tested in accordance with RTP Company methods.

Injection	Nominal Value (English)	Nominal Value (SI)	
Rear Temperature	525 to 559 °F	274 to 293 °C	
Middle Temperature	525 to 559 °F	274 to 293 °C	
Front Temperature	525 to 559 °F	274 to 293 °C	
Mold Temperature	151 to 225 °F	66.0 to 107 °C	
Injection Pressure	12000 to 18000 psi	83.0 to 124 MPa	

Page 1 of 2

Copyright © 2009 - IDES - The Plastics Web ® | 800-788-4668 or 307-742-9227 | www.ides.com.

The information presented on this datasheet was acquired by IDES from the producer of this material. IDES makes substantial efforts to assure the accuracy of this data. However, IDES assumes no responsibility for the data values and encourages that upon final material selection, data points are validated with the material supplier.

Revision History Document Created: Tuesday, July 21, 2009 Added to Prospector: June, 2003 Last Updated: 12/18/2007

RTP Compounds 204 UV Polyamide 66 RTP Company

Notes

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

² Method A (Short-Time)

Page 2 of 2 Copyright © 2009 - IDES - The Plastics Web ® | 800-788-4668 or 307-742-9227 | www.ides.com.

The information presented on this datasheet was acquired by IDES from the producer of this material. IDES makes substantial efforts to assure the accuracy of this data. However, IDES assumes no responsibility for the data values and encourages that upon final material selection, data points are validated with the material supplier.

Revision History Document Created: Tuesday, July 21, 2009 Added to Prospector: June, 2003 Last Updated: 12/18/2007