RTP 1001 FR A UV

Polybutylene Terephthalate

RTP Company

Message:

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 Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.50	g/cm³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18mm, injection molding	0.70	%	ASTM D955
6.35mm, injection molding	0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	4820	MPa	ASTM D638
Tensile Strength	93.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	4.5	%	ASTM D638
Flexural Modulus (Injection Molded)	4130	MPa	ASTM D790
Flexural Strength (Injection Molded)	145	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm, Injection Molded)	43	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	640	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, injection molded	193	°C	ASTM D648
1.8 MPa, unannealed, injection molded	171	°C	ASTM D648
CLTE - Flow	4.9E-5	cm/cm/°C	ASTM D696

Thermal Conductivity	0.17	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength [1]	19	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.30		ASTM D150
Dissipation Factor (1 MHz)	0.020		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	V-0		UL 94
Additional Information			
The value listed as Flammibility, UL 94, was tested in accordance with RTP Company methods.			
Injection	**Nominal Value**	**Unit**	
Rear Temperature	232 - 257	°C	
Middle Temperature	232 - 257	°C	
Front Temperature	232 - 257	°C	
Mold Temperature	79.0 - 107	°C	
Injection Pressure	69.0 - 103	MPa	
NOTE			
1.	Method A (short time)		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT