RTP 304 TFE 10 FR A

Polycarbonate

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, 25% filler by weight		
Additive	PTFE lubricant (10%)		
Features	Lubrication 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 (3.18 mm, Injection Molded)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	8270	MPa	ASTM D638
Tensile Strength	117	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	2.5	%	ASTM D638
Flexural Modulus (Injection Molded)	6890	MPa	ASTM D790
Flexural Strength (Injection Molded)	172	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm, Injection Molded)	130	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	750	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, injection molded	146	°C	ASTM D648
1.8 MPa, unannealed, injection molded	141	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257

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	249 - 293	°C
Middle Temperature	249 - 293	°C
Front Temperature	249 - 293	°C
Mold Temperature	66.0 - 93.0	°C
Injection Pressure	69.0 - 103	MPa

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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