

RTP 1099 X 137390

Polybutylene Terephthalate

RTP Company

Message:

Glass Fiber - Flame Retardant - UL94 V-0

General Information			
UL YellowCard	E84658-251412		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.63	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.15 - 0.25	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Moisture Content	0.030	%	
Primary Additive	30	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10300	MPa	ASTM D638
Tensile Strength	145	MPa	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	228	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	96	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	850	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	204	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength ¹ (in Oil)	24	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.70		ASTM D150
Dissipation Factor (1 MHz)	0.020		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94

0.8 mm	V-0	UL 94
3.0 mm	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Dew Point	-29	°C
Processing (Melt) Temp	238 - 271	°C
Mold Temperature	79 - 107	°C
Injection Pressure	68.9 - 103	MPa
Injection instructions		
Desiccant Type Dryer Required.		
NOTE		
1.	Method A (short time)	

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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



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