

RTP 1105 FR

Polyethylene Terephthalate

RTP Company

Message:

Glass Fiber - Flame Retardant - UL94 V-0

General Information			
UL YellowCard	E84658-251516		
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	1.69	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Moisture Content	0.010	%	
Primary Additive	30	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12100	MPa	ASTM D638
Tensile Strength	89.6	MPa	ASTM D638
Tensile Elongation (Yield)	1.5 - 2.5	%	ASTM D638
Flexural Modulus	11400	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	69	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	370	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	243	°C	ASTM D648
1.8 MPa, not annealed	227	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹ (in Oil)	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.70		ASTM D150
Dissipation Factor (1 MHz)	0.010		ASTM D150
Arc Resistance	77.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm)	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Dew Point	-40.0	°C
Mold Temperature	135 - 149	°C
Injection instructions		
Desiccant Type Dryer Required.		
NOTE		
1.	Method A (short time)	

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