

RTP 503 FR

Styrene Acrylonitrile
RTP Company

Message:

Glass Fiber - Flame Retardant - Lubricated - UL94 V-0

General Information			
UL YellowCard	E84658-251614		
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	Lubricant		
Features	Lubrication		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.15 - 0.25	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8620	MPa	ASTM D638
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	190	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	104	°C	ASTM D648
1.8 MPa, not annealed	98.9	°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)	3.60		ASTM D150
Dissipation Factor (1 MHz)	0.010		ASTM D150
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.800 mm)	V-0	UL 94
Additional Information	Nominal Value	Unit
Primary Additive	20	%
Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	2.0	hr
Processing (Melt) Temp	238 - 279	°C
Mold Temperature	51.7 - 82.2	°C
Injection Pressure	68.9 - 103	MPa
Injection instructions		
Desiccant Type Dryer Required.		
NOTE		

1.
- Method A (short time)

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