RTP 602 FR

Acrylonitrile Butadiene Styrene

RTP Company

Technical Data

Product Description	
Glass Fiber - Flame Retardant - UL94 V-0	

General	
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Features	• Flame Retardant
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.34	1.34 g/cm³	ASTM D792
Molding Shrinkage - Flow (0.126 in (3.20 mm))	2.0E-3 to 3.0E-3 in/in	0.20 to 0.30 %	ASTM D955
Water Absorption (73°F (23°C), 24 hr)	0.20 %	0.20 %	ASTM D570
Moisture Content	0.10 %	0.10 %	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	850000 psi	5860 MPa	ASTM D638
Tensile Strength	9500 psi	65.5 MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0 %	2.0 to 3.0 %	ASTM D638
Flexural Modulus	750000 psi	5170 MPa	ASTM D790
Flexural Strength	14000 psi	96.5 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (0.126 in (3.20 mm))	1.0 ft·lb/in	53 J/m	ASTM D256
Unnotched Izod Impact (0.126 in (3.20 mm))	4.5 ft·lb/in	240 J/m	ASTM D4812
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	225 °F	107 °C	
264 psi (1.8 MPa), Unannealed	215 °F	102 °C	
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Volume Resistivity	> 1.0E+15 ohm·cm	> 1.0E+15 ohm·cm	ASTM D257
Dielectric Strength [3] (in Oil)	400 V/mil	16 kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.40	3.40	ASTM D150
Dissipation Factor (1 MHz)	0.010	0.010	ASTM D150
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating (0.0591 in (1.50 mm))	V-0	V-0	UL 94
Additional Information	**Nominal Value (English)**	**Nominal Value (SI)**	
Primary Additive	15 %	15 %	

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 °F	82.2 °C
Drying Time	2.0 hr	2.0 hr
Dew Point	0.00 °F	-17.8 °C
Processing (Melt) Temp	400 to 460 °F	204 to 238 °C
Mold Temperature	145 to 185 °F	62.8 to 85.0 °C
Injection Pressure	10000 to 15000 psi	68.9 to 103 MPa