

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/cm ³	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