

RTP EMI 660.7

Acrylonitrile Butadiene Styrene

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.

General Information			
Filler / Reinforcement	Stainless steel fiber, 7.0% filler by weight		
Features	Electromagnetic shielding (EMI)		
Agency Ratings	MIL B-81705B		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2890	MPa	ASTM D638
Tensile Strength	38.0	MPa	ASTM D638
Tensile Elongation (Break)	5.5	%	ASTM D638
Flexural Modulus	2620	MPa	ASTM D790
Flexural Strength	62.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430	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	102	°C	ASTM D648
CLTE - Flow	7.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.59 mm, Values per RTP
Company testing.)

HB

UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 6mil/inMold Shrinkage, Linear-Flow, ASTM D955, 0.125in.: 5mil/inTensile Elongation, ASTM D638: 4-7%NFPA Code 56A, static decay rate, 0.5 sec: passesShielding Effectiveness, ASTM D4935: 40+ dBStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 seconds

Injection	Nominal Value	Unit
Rear Temperature	232 - 288	°C
Middle Temperature	232 - 288	°C
Front Temperature	232 - 288	°C
Mold Temperature	37.8 - 93.3	°C
Injection Pressure	68.9 - 138	MPa

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