

RTP EMI 1561

Thermoplastic Elastomer

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, 10% filler by weight		
Features	Electromagnetic shielding (EMI)		
Agency Ratings	MIL B-81705B		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	276	MPa	ASTM D638
Tensile Strength	34.5	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	207	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	No Break		ASTM D256
Unnotched Izod Impact (3.18 mm)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	157	°C	ASTM D648
1.8 MPa, not annealed	43.3	°C	ASTM D648
CLTE - Flow	1.4E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 9mil/in.NFPA Code 56A, static decay rate, 0.5 sec: passesShielding Effectiveness, ASTM D4935: 40+ dB

Injection	Nominal Value	Unit
Rear Temperature	188 - 216	°C
Middle Temperature	188 - 216	°C
Front Temperature	188 - 216	°C
Mold Temperature	21.1 - 37.8	°C
Injection Pressure	68.9 - 103	MPa

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Recommended distributors for this material

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