

RTP EMI 1262 T-80A

Thermoplastic Polyurethane Elastomer (Polyether)

RTP Company

Message:

Stainless Steel Fiber - Electrically Conductive - EMI/RFI Shielding

General Information			
Filler / Reinforcement	Stainless steel fiber, 15% filler by weight		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
	Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.0	%	ASTM D955
Moisture Content	0.010	%	
Primary Additive	10	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	6.21	MPa	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Elongation (Yield)	500	%	ASTM D412
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	110	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 - 1.0E+4	ohms	ASTM D257
Volume Resistivity	10 - 1.0E+2	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	107	°C	
Drying Time	6.0	hr	
Dew Point	-17.8	°C	
Processing (Melt) Temp	185 - 218	°C	
Mold Temperature	37.8 - 60.0	°C	
Injection Pressure	68.9 - 103	MPa	
Injection instructions			

Use a reverse barrel profile. Remove hopper magnets. Allow 4 - 5 shots to properly disperse the conductive fibers. The surface finish should have a silver streaking appearance, not clumps. Remove hopper magnets. Desiccant Type Dryer Required.

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