



**Product Data Sheet &  
General Processing Conditions**

**EMI 1262 T-80A  
Ether-based Thermoplastic Polyurethane  
Elastomer (TPUR/TPU)  
Stainless Steel Fiber  
Electrically Conductive  
EMI/RFI Shielding**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	15 %	15 %	
Specific Gravity	1.18	1.18	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0100 in/in	1.00 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	2.0 ft-lbs/in	107 J/m	D 256
unnotched 1/8 in (3.2 mm) section	2.0 ft-lbs/in	107 J/m	D 4812
Tensile Strength	900 psi	6 MPa	D 638
Tensile Elongation	500.0 %	500.0 %	D 412
Hardness Shore A, 10 s delay	80	80	D 2240

**ELECTRICAL**

Volume Resistivity	1E1 - 1E2 ohm.cm	1E1 - 1E2 ohm.cm	D 257
Surface Resistivity	1E3 - 1E4 ohm/sq	1E3 - 1E4 ohm/sq	D 257

**EMI**

Shielding Effectiveness @ 3 mm thickness	55 dB @ 300 MHz	55 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	55 dB @ 500 MHz	55 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	55 dB @ 700 MHz	55 dB @ 700 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	57 dB @ 1000 MHz	57 dB @ 1000 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	60 dB @ 1300 MHz	60 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	63 dB @ 1500 MHz	63 dB @ 1500 MHz	D 4935

**PROPERTY NOTES**

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

**GENERAL PROCESSING FOR INJECTION MOLDING**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	365 - 425 °F	185 - 218 °C
Mold Temperature	100 - 140 °F	38 - 60 °C
Drying	6 hrs @ 225 °F	6 hrs @ 107 °C
Moisture Content	0.01 %	0.01 %
Dew Point	0 °F	-18 °C

**PROCESSING NOTES**

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.