



**Product Data Sheet &
General Processing Conditions**

**ESD A 100 HF
Polypropylene (PP)
ESD Protection
Static Dissipative**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.97	0.97	D 792
Melt Flow Rate @ 230 °C, / 2.16 kg	6.00 - 12.00 g/10 min	6.00 - 12.00 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0120 - 0.0170 in/in	1.20 - 1.70 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	10.0 ft-lbs/in	534 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	3400 psi	23 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.15 x 10 ⁶ psi	1034 MPa	D 638
Flexural Strength	4200 psi	29 MPa	D 790
Flexural Modulus	0.18 x 10 ⁶ psi	1241 MPa	D 790

ELECTRICAL

Volume Resistivity	1E4 - 1E9 ohm.cm	1E4 - 1E9 ohm.cm	D 257
Surface Resistivity	1E5 - 1E11 ohm/sq	1E5 - 1E11 ohm/sq	D 257
Static Decay MIL-PRF-81705D, 5kV to 50 V, 12% RH	< 2.00 s	< 2.00 s	FTMS101C 4046.1

THERMAL

Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
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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.

* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	375 - 450 °F	191 - 232 °C
Mold Temperature	90 - 150 °F	32 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C