



## 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 <sup>6</sup> psi	1034 MPa	D 638
Flexural Strength	4200 psi	29 MPa	D 790
Flexural Modulus	0.18 x 10 <sup>6</sup> 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

#### 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

#### PROCESSING NOTES

21 Mar 2017 esg

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

No information supplied by RTP Company constitutes a warranty regarding product performance or use. Any information regarding performance or use is only offered as suggestion for investigation for use, based upon RTP Company or other customer experience. RTP Company makes no warranties, expressed or implied, concerning the suitability or fitness of any of its products for any particular purpose. It is the responsibility of the customer to determine that the product is safe, lawful and technically suitable for the intended use. The disclosure of information herein is not a license to operate under, or a recommendation to infringe any patents.

RTP COMPANY • 580 EAST FRONT STREET • WINONA, MN 55987 • 507-454-6900