



Product Data Sheet & General Processing Conditions

ESD A 700 A LF Low Density Polyethylene (LDPE) ESD Protection Low Melt Flow

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.00	1.00	D 792
Melt Flow Rate			
@ 190 °C, / 2.16 kg	< 1.00 g/10 min	< 1.00 g/10 min	D 1238
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0150 - 0.0250 in/in	1.50 - 2.50 %	D 955

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	No Break	No Break	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	1200 psi	8 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.05 x 10 ⁶ psi	345 MPa	D 638
Flexural Strength	1400 psi	10 MPa	D 790
Flexural Modulus	0.05 x 10 ⁶ psi	345 MPa	D 790

ELECTRICAL

Volume Resistivity	1000 - 9.9E+09 ohm.cm	1000 - 9.9E+09 ohm.cm	D 257
Surface Resistivity	1.0E+5 - 9.9E+11 ohm/sq	1.0E+5 - 9.9E+11 ohm/sq	D 257
Surface Resistance	1.0E+4 - 9.9E+10 ohm	1.0E+4 - 9.9E+10 ohm	ESD STM11.11
Static Decay	< 2.00 s	< 2.00 s	FTMS101C 4046.1

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

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	380 - 450 °F	193 - 232 °C
Mold Temperature	70 - 150 °F	21 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C

PROCESSING NOTES

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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.

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