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**Product Data Sheet &
General Processing Conditions**

**ESD 300 EM FR A
Polycarbonate (PC)
ESD Protection
Static Dissipative
Flame Retardant
Easy Molding**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.28	1.28	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0050 - 0.0080 in/in	0.50 - 0.80 %	D 955
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.8 ft-lbs/in	43 J/m	D 256
unnotched 1/8 in (3.2 mm) section	28.0 ft-lbs/in	1495 J/m	D 4812
Tensile Strength	9300 psi	64 MPa	D 638
Tensile Elongation	8.0 - 12.0 %	8.0 - 12.0 %	D 638
Tensile Modulus	0.40 x 10 ⁶ psi	2758 MPa	D 638
Flexural Strength	15500 psi	107 MPa	D 790
Flexural Modulus	0.40 x 10 ⁶ psi	2758 MPa	D 790
ELECTRICAL			
Volume Resistivity	< 1E4 ohm.cm	< 1E4 ohm.cm	D 257
Surface Resistivity	< 1E7 ohm/sq	< 1E7 ohm/sq	D 257
Static Decay	< 2.00 s	< 2.00 s	ESD STM11.11 FTMS101C 4046.1
THERMAL			
Deflection Temperature @ 264 psi (1820 kPa)	260 °F	127 °C	D 648
Ignition Resistance* Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801

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	550 - 600 °F	288 - 316 °C
Mold Temperature	180 - 250 °F	82 - 121 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.