



**Product Data Sheet &
General Processing Conditions**

**RTP 700 A
Low Density Polyethylene (LDPE)**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.92	0.92	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0240 - 0.0310 in/in	2.40 - 3.10 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	6.5 ft-lbs/in	347 J/m	D 256
unnotched 1/8 in (3.2 mm) section	7.0 ft-lbs/in	374 J/m	D 4812
Tensile Strength	1000 psi	7 MPa	D 638
Tensile Elongation	10.0 %	10.0 %	D 638
Tensile Modulus	0.03 x 10 ⁶ psi	207 MPa	D 638
Flexural Strength	800 psi	6 MPa	D 790
Flexural Modulus	0.02 x 10 ⁶ psi	138 MPa	D 790

THERMAL

Ignition Resistance* Automotive**	≤ 4.0 in/mi @ 1/8 in	≤ 102 mm/mi @ 3.2 mm	FMVSS 302
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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	380 - 450 °F	193 - 232 °C
Mold Temperature	70 - 150 °F	21 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C