



**Product Data Sheet &  
General Processing Conditions**

**RTP 700 SI 2 Z  
High Density Polyethylene (HDPE)  
Silicone Lubricated  
FDA Compliant Ingredients**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	0.94	0.94	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0200 - 0.0300 in/in	2.00 - 3.00 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.7 ft-lbs/in	91 J/m	D 256
unnotched 1/8 in (3.2 mm) section	20.0 ft-lbs/in	1068 J/m	D 4812
Tensile Strength	2750 psi	19 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.16 x 10 <sup>6</sup> psi	1103 MPa	D 638
Flexural Strength	3000 psi	21 MPa	D 790
Flexural Modulus	0.13 x 10 <sup>6</sup> psi	896 MPa	D 790

**ELECTRICAL**

Volume Resistivity	> 1E14 ohm.cm	> 1E14 ohm.cm	D 257
--------------------	---------------	---------------	-------

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	120 °F	49 °C	D 648
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**

	<b>English</b>	<b>SI Metric</b>
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