



**Product Data Sheet &  
General Processing Conditions**

**RTP 1207 S-65D  
Ester-based Thermoplastic Polyurethane  
Elastomer (TPUR/TPU)  
Glass Fiber**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	40 %	40 %	
Specific Gravity	1.54	1.54	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 in/in	0.20 %	D 955
<b>MECHANICAL</b>			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	7.0 ft-lbs/in	374 J/m	D 256
unnotched 1/8 in (3.2 mm) section	30.0 ft-lbs/in	1602 J/m	D 4812
Tensile Strength	12000 psi	83 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.40 x 10 <sup>6</sup> psi	2758 MPa	D 638
Flexural Strength	12000 psi	83 MPa	D 790
Flexural Modulus	0.40 x 10 <sup>6</sup> psi	2758 MPa	D 790
Hardness Shore D, instantaneous	75	75	D 2240

**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**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	7000 - 12000 psi	48 - 83 MPa
Melt Temperature	380 - 420 °F	193 - 216 °C
Mold Temperature	60 - 90 °F	16 - 32 °C
Drying	6 hrs @ 180 °F	6 hrs @ 82 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-40 °F	-40 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.