



**Product Data Sheet &
General Processing Conditions**

**RTP 1205 S-75D
Ester-based Thermoplastic Polyurethane
Elastomer (TPUR/TPU)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	30 %	30 %	
Specific Gravity	1.44	1.44	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0005 - 0.0020 in/in	0.05 - 0.20 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	7.5 ft-lbs/in	400 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	10500 psi	72 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.45 x 10 ⁶ psi	3103 MPa	D 638
Flexural Strength	10000 psi	69 MPa	D 790
Flexural Modulus	0.35 x 10 ⁶ psi	2413 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

	English	SI Metric
Melt Temperature	400 - 430 °F	204 - 221 °C
Mold Temperature	80 - 140 °F	27 - 60 °C
Drying	4 - 6 hrs @ 210 - 230 °F	4 - 6 hrs @ 99 - 110 °C
Moisture Content	< 0.02 %	< 0.02 %
Dew Point	< -20 °F	< -29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.