



**Product Data Sheet &  
General Processing Conditions**

**RTP 1200 S-55D TFE 15  
Ester-based Thermoplastic Polyurethane  
Elastomer (TPUR/TPU)  
PTFE Lubricated**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	15 %	15 %	
Specific Gravity	1.29	1.29	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0080 - 0.0120 in/in	0.80 - 1.20 %	D 955

**MECHANICAL**

Tensile Strength	2250 psi	16 MPa	D 412
Tensile Elongation	> 400.0 %	> 400.0 %	D 412
Flexural Modulus	25000 psi	172.4 MPa	D 790
Tear Strength, Die C	250.0 pli	43.8 N/mm	D 624
Hardness Shore D, instantaneous	58	58	D 2240

**THERMAL**

Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
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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**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	320 - 425 °F	160 - 218 °C
Mold Temperature	100 - 140 °F	38 - 60 °C
Drying	6 hrs @ 225 °F	6 hrs @ 107 °C
Moisture Content	0.01 %	0.01 %
Dew Point	0 °F	-18 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.