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Poncioplastics.com



**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

PERMANENCE	English	SI Metric	ASTM TEST
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

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	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.