



**COMPOUND:** 701

**POLYMER:** Polytetrafluoroethylene (PTFE)

**DESCRIPTION:** 25% Glass Fiber Reinforced PTFE, Compression and Isostatic Molded Stock Shapes and Machined parts

Property	Test Method	ASTM D4745 Type I, Grade 2	Internal Specification Values	Typical Values	Units
Specific Gravity	ASTM D792	2.15 – 2.25	2.19 – 2.26	2.23	-
Hardness	ASTM D2240		58 - 68	62	SHORE-D
Tensile Strength at Break	ASTM D1708	2,270 (15.7)	2,300 (15.88) Minimum	2,900 (20.00)	PSI (MPa)
Elongation at Break	ASTM D1708	180 Minimum	200 Minimum	250	%
Total Deformation Under Load @ 24 Hrs, 2,000 PSI, 70 °F	ASTM D621			4.55 (Axial)	%
Permanent Deformation after 24 Hrs Relaxation	ASTM D621			2.97 (Axial)	%
Coefficient of Linear Thermal Expansion 70 - 200 °F (21.1 – 93.3 °C) 70 - 300 °F (21.1 – 148.9 °C) 70 – 400 °F (21.1 – 204.4 °C)	ASTM E831			4.89 (8.81) 5.31 (9.56) 6.01 (10.81)	$\times 10^{-5} \text{ } ^\circ\text{F}^{-1} \text{ } (^\circ\text{C}^{-1})$

**REVISION HISTORY**

REV. NONE – Initial Release, 02-21-2012, BJ

REV. A – Modified spec & typical property values, Deleted Applications/Compliance table. Updated data sheet format, 9-04-2020 RSK