



**COMPOUND:** 702 (A173)

**POLYMER:** Polytetrafluoroethylene (PTFE)

**DESCRIPTION:** 15% Glass Fiber Reinforced and 5% MoS<sub>2</sub> (Moly) Filled PTFE Compound, Compression Molded Stock Shapes and Machined parts.

Property	Test Method	Internal Specification Values	Typical Values	Units
Specific Gravity	ASTM D792	2.22 – 2.30	2.26	-
Hardness	ASTM D2240	60 - 70	63	SHORE-D
Tensile Strength at Break	ASTM D1708	2,800 (19.31) Minimum	3,000 (20.68)	PSI (MPa)
Elongation at Break	ASTM D1708	200 Minimum	250	%
Compressive Strength, Axial @ 0.2% Offset @ Maximum Load	ASTM D695		1,900 (13.10) 5,950 (41.02)	PSI (MPa)
Coefficient of Linear Thermal Expansion, Transverse 70 - 200 °F (21.1 – 93.3 °C) 70 - 300 °F (21.1 – 148.9 °C) 70 - 400 °F (21.1 – 204.4 °C) 70 - 500 °F (21.1 – 260.0 °C)	ASTM E861		4.09 (7.37) 4.59 (8.27) 5.24 (9.43) 6.21 (11.17)	X 10 <sup>-5</sup> °F <sup>-1</sup> (°C <sup>-1</sup> )
Coefficient of Linear Thermal Expansion, Axial 70 - 200 °F (21.1 – 93.3 °C) 70 - 300 °F (21.1 – 148.9 °C) 70 - 400 °F (21.1 – 204.4 °C) 70 - 500 °F (21.1 – 260.0 °C)	ASTM E861		6.29 (11.33) 6.88 (12.39) 7.62 (13.72) 8.91 (16.03)	X 10 <sup>-5</sup> °F <sup>-1</sup> (°C <sup>-1</sup> )

**REVISION HISTORY**

REV. NONE – Initial Release, 1-30-1997 BJ

REV. A – Material number changed from 702 to 702 (A173). Refer to ECN 5628. Typical hardness value changed from 62 to 63 SHORE-D.

REV. B – Updated Compressive Strength and CTE test data. Deleted Deformation under load and Thermal Conductivity test data. Deleted Applications/Compliance table. Updated data sheet format, 10-02-2020 RSK