



**COMPOUND:** 757

**POLYMER:** Polyamide (PA)

**DESCRIPTION:** MoS2 Filled Nylon 6/6 (PA), Extruded Stock Shapes and Machined parts,

Property	Test Method	Typical Values	Units
Specific Gravity	ASTM D792	1.16	-
Water Absorption 24 HRS, Immersion Saturation, Immersion	ASTM D570	0.3 7.0	%
Hardness	ASTM D785	115 85	ROCKWELL R ROCKWELL M
Hardness	ASTM D2240	85	SHORE-D
Tensile Strength at Break	ASTM D638	12,500 (86.18)	PSI (MPa)
Elongation at Break	ASTM D638	25	%
Tensile Modulus	ASTM D638	480,000 (3,309.5)	PSI (MPa)
Compressive Strength	ASTM D695	16,000 (110.32)	PSI (MPa)
Compressive Modulus	ASTM D695	420,000 (2,895.8)	PSI (MPa)
Flexural Strength	ASTM D790	17,000 (117.21)	PSI (MPa)
Flexural Modulus	ASTM D790	460,000 (3,171.6)	PSI (MPa)
Shear Strength	ASTM D732	10,500 (72.39)	PSI (MPa)
Izod Impact Strength, Notched	ASTM D256	0.5	FT.LB/INCH
Coefficient of Linear Thermal Expansion	ASTM D696	4.00 (7.20)	X 10 <sup>-5</sup> °F <sup>-1</sup> (°C <sup>-1</sup> )
Heat Deflection Temperature @ 264 PSI (1.82 MPa)	ASTM D648	200 (93.3)	°F (°C)
Maximum Continuous Operating Temperature		220 (104.4)	°F (°C)
Intermittent Operating Temperature		330 (165.6)	

**REVISION HISTORY**

REV. NONE – Initial Release, 5-14-1990 BJ

REV. A – Updated data sheet format on new template. Added additional test data. 10-15-2020 RSK

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