



COMPOUND: 799

POLYMER: Polyamide (PA)

DESCRIPTION: Unfilled Nylon 6 Natural, Cast 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	0.55 5.0	%
Hardness	ASTM D785	85	SHORE-D
Tensile Strength at Break	ASTM D638	13,000 (89.63)	PSI (MPa)
Elongation at Break	ASTM D638	25	%
Tensile Modulus	ASTM D638	450,000 (3,102.64)	PSI (MPa)
Compressive Strength	ASTM D695	16,000 (110.32)	PSI (MPa)
Compressive Modulus	ASTM D695	350,000 (2,413.16)	PSI (MPa)
Shear Strength	ASTM D732	10,000 (68.95)	PSI (MPa)
Flexural Strength	ASTM D790	15,500 (106.87)	PSI (MPa)
Flexural Modulus	ASTM D790	420,000 (2,895.79)	PSI (MPa)
Izod Impact Strength, Notched	ASTM D256	2.0	FT.LB/INCH
Coefficient of Linear Thermal Expansion	ASTM D696	5.0 (9.0)	X 10 ⁻⁵ °F ⁻¹ (°C ⁻¹)
Heat Deflection Temperature @ 264 PSI (1.82 MPa)	ASTM D648	250 (121.1)	°F (°C)
Maximum Continuous Operating Temperature		230 (110)	°F (°C)
Minimum Operating Temperature		-22 (-30)	

REVISION HISTORY

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

REV. A – Updated data sheet format on new template. Added additional test data. 1012-2020 RSK

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