

Material Data Sheet

COMPOUND: 773

POLYMER: Polyamide (PA)

DESCRIPTION: Nylon 6/12 unfilled, Cast Stock Shapes and Machined parts, Yellow Colored

Property	Test Method	Internal Specification Values	Typical Values	Units
Specific Gravity	ASTM D792	1.13 +/- 0.03	1.13	-
Water Absorption 24 HRS, Immersion Saturation, Immersion	ASTM D570		0.2 - 0.3 3.0 - 5.0	%
Hardness	ASTM D785	75 - 81	77	SHORE-D
Tensile Strength at Break	ASTM D638	8,700 (59.98) Minimum	10,000 (68.95)	PSI (MPa)
Elongation at Break	ASTM D638	25 Minimum	37	%
Tensile Modulus	ASTM D638		375,000 – 475,000 (2,585.53 – 3,275.01)	PSI (MPa)
Compressive Strength	ASTM D695		12,000 – 14,000 (82.74 – 96.53)	PSI (MPa)
Compressive Modulus	ASTM D695		275,000 – 375,000 (1,896.06 – 2,585.53)	PSI (MPa)
Flexural Strength	ASTM D790		13,000 – 16,000 (89.63 – 110.32)	PSI (MPa)
Flexural Modulus	ASTM D790		325,000 – 475,000 (2,240.80 – 3,275.01)	PSI (MPa)
Izod Impact Strength, Notched	ASTM D256		2.00 – 4.00	FT.LB/INCH
Deformation Under Load	ASTM D621		1.00 – 3.00	%
Heat Deflection Temperature @ 264 PSI (1.82 MPa)	ASTM D648		200 (93.3) – 300 (148.89)	°F (°C)
Coefficient of Friction, Dynamic	ASTM D1894		0.26	
Continuous Service Temperature Intermittent Service Temperature			210 (98.89) 300 (148.89)	°F (°C)

REVISION HISTORY
REV. NONE – Initial Release, 4-23-2001 BJ

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