



**COMPOUND:** 727

**POLYMER:** Polyamide (PA)

**DESCRIPTION:** 30% Glass Fiber Reinforced Nylon 6/6, Natural. Stock Shapes and Machined parts,

Property	Test Method	Typical Values	Units
Specific Gravity	ASTM D792	1.36	-
Water Absorption 24 HRS, Immersion Saturation, Immersion	ASTM D570	0.25 0.30	%
Hardness	ASTM D785	88	ROCKWELL M
Tensile Strength at Break Tensile Strength at Yield	ASTM D638	27,000 (186.16) 13,500 (93.08)	PSI (MPa)
Elongation at Break	ASTM D638	10	%
Compressive Strength @ 1% Strain @ 10% Strain @ Maximum Load	ASTM D695	2,900 (19.99) 17,000 (117.21) 24,000 (165.47)	PSI (MPa)
Compressive Modulus	ASTM D695	380,000 (2,620.0)	PSI (MPa)
Flexural Strength	ASTM D790	19,575 (134.96)	PSI (MPa)
Flexural Modulus	ASTM D790	700,000 (4,826.33)	PSI (MPa)
Shear Strength	ASTM D732	12,500 (86.18)	PSI (MPa)
Izod Impact Strength, Notched	ASTM D256	1.25	FT.LB/INCH
Coefficient of Linear Thermal Expansion	ASTM D696	2.70 (4.86)	X 10 <sup>-5</sup> °F <sup>-1</sup> (°C <sup>-1</sup> )
Heat Deflection Temperature @ 264 PSI (1.82 MPa)	ASTM D648	490 (254.4)	°F (°C)
Maximum Continuous Operating Temperature Intermittent Operating Temperature		230 (110) 338 (170)	°F (°C)

**REVISION HISTORY**

REV. NONE – Initial Release, 5-14-1989 BJ

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

The descriptions, design and performance information, and recommended uses for the products, tests and data described herein are based generally on our design and manufacturing experience, product testing in specific conditions, and industry standards. The foregoing information is for general guidance only and does not constitute a guaranty or warranty of design or warranty of performance. All warranties regarding the products described herein will be given in writing at the time of sale of such products. Each purchaser of such products must decide if the products are suitable to the intended use of such purchaser.

Arylex®, CDI Energy Products®, OptiSeal® & OptiPak® are registered trademarks of J.H. Fenner & Co. Limited.