

PROPERTY	TYPICAL VALUES	ASTM or UL TEST
PHYSICAL		
DENSITY, g/cm ³	0.930 - 0.940	ASTM D 792
HARDNESS, ROCKWELL R SCALE	64 - 68	ASTM D 785
DUROMETER (D/15)	68 - 72	ASTM D 2240
DEFLECTION TEMPERATURE °F (°C)		ASTM D 648
AT 66 psi	174 (79)	
AT 264 psi	115 (46)	
MECHANICAL		
TENSILE PROPERTIES		ASTM D 638
MAXIMUM STRENGTH, psi	4,800 – 6,200	2 in./min
MPa	33 - 43	
YIELD STRENGTH, psi	2,900 - 3,500	
MPa	20 - 24	
MODULUS, psi	100,000 - 150,000	
MPa	689 - 1033	
ELONGATION AT BREAK, %	300 - 450	
FLEXURAL MODULUS, psi	100,000 - 150,000	ASTM D 790
MPa	689 - 1033	
IZOD IMPACT STRENGTH AT 23°C, ft-lbs/in ² (KJ/m ²)		
NOTCHED	No break	ASTM D 256A
DOUBLE NOTCHED	> 20 (42)	Internal
MEAN COEFFICIENT OF LINEAR THERMAL EXPANSION PER °C	2 x 10 ⁻⁴	ASTM D 696
COEFFICIENT OF FRICTION AGAINST CR-PLATED STEEL AT 23°C		ASTM D 1894
STATIC	.20 - .25	
DYNAMIC	.14 - .17	
ABRASION INDEX (RELATIVE TO STEEL AT 100)	10	Sand Slurry
TEMPERATURE		
RECOMMENDED OPERATING TEMPERATURE RANGE		Internal
MAXIMUM CONTINUOUS, °F (°C)	180 (82)	
MINIMUM CONTINUOUS, °F (°C)	-300 (-182)	
ELECTRICAL		
DIELECTRIC CONSTANT, 60 CYCLES TO 106 CYCLES	2.3-2.35	ASTM D 150
SURFACE RESISTIVITY, ohms	>10 ¹¹ 6	ASTM D 257
VOLUME RESISTIVITY, ohms-cm	>10 ¹¹ 6	ASTM D 257

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, whether alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products. For most recent technical information, phone in USA or in Canada.

METRIC

Property	Method	Unit	Virgin	Repro	Cross Linked	Static Reduced
Density	ASTM D 792	lbs/in ³ (g/cm ³)	0.033 (0.93)	0.034 (0.94)	0.033 (0.93)	0.033-0.034 (0.93 - 0.94)
Tensile Break	ASTM D 638	PSI (MPa)	6000 (41)	4200 (30)	5200 (36)	4,800 - 5,600 (33-39)
Elongation at Break	ASTM D 638	%	400	300	350	300 - 400
Flexural Modulus	ASTM D 790B	PSI (MPa)	120,000 (830)	111000 (765)	120,000 (830)	100,000 - 150,000 (690-1035)
Abrasion	Internal	Steel = 100	16	14	7	10
IZOD Impact						
Notched	ASTM D 256A	ft.-lbs./in. (J/m)	No Break	No Break	No Break	No Break
Double- notched	Internal	ft.-lbs./in. (J/m)	26 (1400)	21 (1300)	23 (1240)	
Linear Coefficient of						
Thermal Expansion	ASTM D 696	°K-1	2 x 10 ⁻⁴	2 x 10 ⁻⁴	0.9 x 10 ⁻⁴	1.8 x 10 ⁻⁴
Coefficient of Friction						
Static	ASTM D 1894	Unitless	0.2	0.2	0.2	.20 - .25
Dynamic	ASTM D 1894	Unitless	0.15	0.15	0.15	.12 - .16

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