

PROPERTY	TYPICAL VALUES	ASTM or UL TEST
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PHYSICAL		
DENSITY, g/cm ³	0.930 - 0.940	ASTM D 792
HARDNESS, ROCKWELL R SCALE	67 - 70	ASTM D 2240

MECHANICAL		
TENSILE PROPERTIES		ASTM D 638
MAXIMUM STRENGTH, psi	4,800 - 5,600	2 in./min
MPa	33 - 39	
YIELD STRENGTH, psi	2,800 - 3,200	
MPa	19 - 22	
MODULUS, psi	100,000 - 150,000	
MPa	689-1083	
ELONGATION AT BREAK, %	300 - 400%	
MODULUS OF ELASTICITY, psi	100,000 - 150,000	
MPa	689 - 1033	
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

TEMPERATURE		
MEAN CO-EFFICIENT OF LINEAR THERMAL EXPANSION PER °C		ASTM D 696
-30° TO 30°C	1.8 x 10 ⁻⁴	
OPERATING TEMPERATURE		
MAXIMUM CONTINUOUS °F (°C)	180 (82)	
MINIMUM	-22 (-30)	
CO-EFFICIENT OF FRICTION AGAINST CR-PLATED STEEL AT 23°C		ASTM D 1894
STATIC	.20 - .25	
DYNAMIC	.12 - .16	
ABRASION INDEX (RELATIVE TO STEEL AT 100)	10	Sand Slurry

ELECTRICAL		
SURFACE RESISTIVITY, ohms	10 ⁵ to 10 ⁷	ASTM D 257
VOLUME RESISTIVITY, ohms-cm	10 ⁵ to 10 ⁷	ASTM D 257

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METRIC

PHYSICAL PROPERTIES	TYPICAL VALUES	TEST METHODS
Density, g/cm ³	0.930 - 0.940	ASTM D 792
Hardness, Rockwell R Scale	67 - 70	ASTM D 2240
Tensile properties		ASTM D 638
Maximum strength, psi	4,800 - 5,600	2 in./min
MPa	33 - 39	
Yield strength, psi	2,800 - 3,200	
MPa	19 - 22	
Modulus, psi	100,000 - 150,000	
MPa	689-1083	
Elongation at break, %	300 - 400%	
Modulus of elasticity, psi	100,000 - 150,000	
MPa	689 - 1033	
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
Mean co-efficient of linear thermal expansion per °C		ASTM D 696
-30° to 30°C	1.8 x 10 ⁻⁴	
Operating Temperature		
Maximum Continuous °F (°C)	180 (82)	
Minimum	-22 (-30)	
Co-efficient of friction against Cr-plated steel at 23°C		ASTM D 1894
Static	.20 - .25	
Dynamic	.12 - .16	
Abrasion Index (Relative to steel at 100)	10	Sand Slurry
Surface Resistivity, ohms	10 ⁵ to 10 ⁷	ASTM D 257
Volume Resistivity, ohms-cm	10 ⁵ to 10 ⁷	ASTM D 257

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