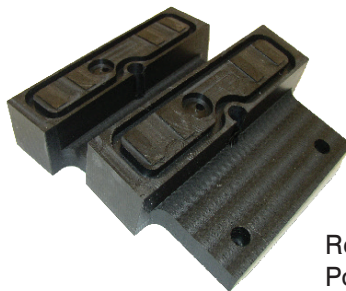


PROPERTY	TYPICAL VALUES	ASTM or UL TEST
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PHYSICAL		
DENSITY, g/cm <sup>3</sup>	0.930 - 0.940	ASTM D 792
HARDNESS, ROCKWELL R SCALE	64 - 68	ASTM D 785
DUROMETER (D/15)	68 - 72	ASTM D 2240

MECHANICAL		
TENSILE PROPERTIES		ASTM D 638
MAXIMUM STRENGTH, psi	3,500 - 5,200	2 in./min
MPa	24 - 36	
YIELD STRENGTH, psi	2,500 - 3,100	
MPa	17 - 21	
MODULUS, psi	100,000 - 150,000	
MPa	689-1083	
ELONGATION AT BREAK, %	200 - 400	
FLEXURAL MODULUS, psi	100,000 - 150,000	ASTM D 790
MPa	689-1083	
IZOD IMPACT STRENGTH AT 23°C, ft-lbs/in <sup>2</sup> (KJ/m <sup>2</sup> )		
NOTCHED	No break	ASTM D 256A
MEAN CO-EFFICIENT OF LINEAR THERMAL EXPANSION PER °C	2 x 10 <sup>-4</sup>	ASTM D 696
CO-EFFICIENT OF FRICTION AGAINST CR-PLATED STEEL AT 23°C		ASTM D 1894
STATIC	.20 - .30	
DYNAMIC	.14 - .18	
ABRASION INDEX (RELATIVE TO STEEL AT 100)	9 -11	Sand Slurry

TEMPERATURE		
OPERATING TEMPERATURE RANGE		Internal
MAXIMUM CONTINUOUS, °F (°C)	180 (82)	
MINIMUM CONTINUOUS, °F (°C)	-150 (-101)	



Redco™ UHMW Vacuum  
Pods for CNC Router

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**METRIC**

Property	Method	Unit	Virgin	Repro	Cross Linked	Static Reduced
Density	ASTM D 792	lbs/in <sup>3</sup> (g/cm <sup>3</sup> )	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 <sup>-4</sup>	2 x 10 <sup>-4</sup>	0.9 x 10 <sup>-4</sup>	1.8 x 10 <sup>-4</sup>
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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