

Hy-Pact® S/R-12

ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE (UHMW-PE)

Tolerances

Gauges	Width/Length
1/2" - 1-1/4" +/- 10% 1-1/2" AND OVER +ONLY	Plus Only

Property	Units	ASTM	Nominal Value*
Density	g/cc	D1505	.930
Tensile Strength @ Yield	p.s.i.	D638	>2,800
Elongation @ Break	%	D638	>450
Flexural Modulus	p.s.i.	D790	160,000
Durometer	Shore D	D2240	62
Izod Impact Strength	J/M	D256	No Break
Brittleness Temp.	°C	D746	<-38
Vicat Softening Temp.	°C	D1525	128
Heat Deflection Temp. 66PSI	°C	D648	82
Co-efficient of Linear Ther- mal Expansion	in./in./°F	D696	1.1x10 ⁻⁴

RELATIVE VOLUMETRIC ABRASION	SAND SLURRY TEST*
HY-PACT® S/R-12 POLYMER (UHMW-PE)	12
HY-PACT® S/R-03 POLYMER (VHMW-PE)	40
HIGH DENSITY POLYETHYLENE	110

*TESTED IN A 50/50 MIX OF SAND/WATER SLURRY FOR 8 HOURS AT 1700 RPM.



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