

KING HY-PACT®

Tolerance information:

Gauges 1/8" through 1" ± 5% | Length and width plus only at room temperature

Custom sheet sizes, gauges and colors available

Properties	Units	ASTM	Nominal Values
Density	g/cc	D1505	0.95
Tensile Strength @ Yield	p.s.i.	D638	>4,100
Elongation @ Yield	%	D638	9.6
Flexural Modulus	p.s.i.	D790	186,000
Durometer	Shore D	D2240	65
Izod Impact	ft.lbs./in. ²	D256	16.6
Brittleness Temp.	°C (°F)	D746	<-90°C (<-130°F)
Vicat Softening Temp.	°C (°F)	D1525	130°C (266°F)
Heat Deflection Temp. 66 p.s.i.	°C (°F)	D648	75°C (167°F)
Coefficient of Linear Expansion	in/in/F°	D696	6.0 x 10 ⁻⁵
Miller Number/SAR Results	SAR	G75	3209
Taber	Index	D4060	5

	King StarBoard® UV Protected	King Hy-Pact® UV Protected	UHMW UV Protected	ASTM
QUV Accelerated Weathering Tester	Unexposed 2,000 hours of exposure	Unexposed 2,000 hours of exposure	Unexposed 2,000 hours of exposure	
Tensile @ Yield 70°F (psi)	4,260 4,250	4,100 4,100	3,010 2,970	D638
Elongation @ Yield 70°F (%)	9.2 9.1	9.6 9.6	16 3.2	D638
Tensile @ Break 70°F (psi)	690 680	1,930 1,440	No Break 2,940	D638
Elongation @ Break 70°F (%)	160 155	260% 210%	No Break 3.4%	D638
Taber Index	21 45	5 12	2 182	D4060
IZOD notch 70°F (ft lbs/sq in)	4.1 3.9	16.6 15.7	20.02 0.84	D256
Coefficient of Friction - Kinetic	0.0888 0.0888	0.107 0.107	0.129 0.129	D1894
Coefficient of Friction - Static	0.0832 0.0832	0.102 0.102	0.102 0.102	D1894
Miller Number/SAR Results	8643.3 ---	3209.0 ---	453.9 ---	

All values are determined on specimens prepared according to ASTM Standards.

King Hy-Pact® is made entirely from FDA approved materials. King Hy-Pact® is NSF LISTED for Standard 51.

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