



Building Grade High Density Polyethylene

Tolerances

Gauges

Width/Length

1/4" - 1 1/2" ± 5%

Plus Only at room temp.

Properties	Units	ASTM	Nominal Value*
Density	g/cc	D1505	.963
Tensile Strength @ Yield	p.s.i.	D638	>4500
Tensile Modulus	p.s.i.	D638	318,000
Elongation @ Break	%	D638	600
Elongation @ Yield	%	D638	8.8
Flexural Modulus	p.s.i.	D790	225,000
Durometer	Shore D	D2240	69
Izod Impact Resistance	ft. lbs./in. <sup>2</sup>	D256	1.4
Tensile Impact	ft. lbs./in. <sup>2</sup>	D1822	115
Brittleness Temp.	°C	D746	<-76
Vicat Softening	°C	D1525	132
Heat Deflection Temp. 66p.s.i.	°C	D648	84
Stiffness in Flexure	p.s.i.	D747	125.000
Screw & Nail Withdraw	lbs.	D1761	755 & 55
Flammability	Rating	UL 94	HB

All values are determined on specimens prepared according for ASTM D4976. Nominal values should not be interpreted as specifications.

**King StarBoard® ST** is made entirely from FDA and USDA approved materials.

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