

### High Density Extruded Polyethylene Sheet

GEM Board ST™ HDPE is created with a Co-extrusion process using heat and pressure which transforms co-polymer high density polyethylene pellets into sheets of various thicknesses.

Current thickness production capability: .200" to 1.5"

Current sheet size production capability: max. 75" wide x 216" long - min. 36" x 36"  
(max./min. varies with thickness)

#### Tolerance Information:

Gauges: +/- 5%

Length: +.25"/-0" (at room temperature)

Width: +.25"/-0" (at room temperature)

Layflat: 0 - 1/8" (at room temperature) in any four foot direction

Properties	Units	Nominal Values	ASTM
Density	g/cc	0.962	D1505
Tensile Strength @ Yield	psi	>4,500	D638
Tensile Modulus	psi	315,000	D638
Elongation @ Break	%	>600	D638
Elongation @ Yield	%	8.8	D638
Flexural Modulus	psi	225,000	D790
Flexural Stress @ 5% Strain	psi	4,480	D790
Absorption	max 0.01%	0	D5709(2)
Durometer	Shore D	68	D2240
Tensile Impact	ft.lbs/in <sup>2</sup>	100	D1822
Izod Impact Resistance	ft/lb/in <sup>2</sup>	1.4	D256
Brittleness Temp.	°C/°F	<-75°C (<-130°F)	D746
Vicat Softening	°C/°F	130°C(266°F)	D1525
Heat Deflection Temp. 66 psi	°C/°F	87°C (188°F)	D648
Coefficient of Linear Thermal Expansion	10 <sup>-6</sup> in/in C deg	155	D696

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