

# Material and Physical Datasheet



## King Performance Commodity High Density Polyethylene

### Tolerances

Gauges

Width/Length

1/4" - 1 1/2" ± 5%

Plus Only at Room Temp.

### Properties

### Units

### ASTM

### KPC HDPE

Density	g/cc	D1505	.96
Tensile Strength @ Yield	psi	D638	>4100
Tensile Modulus	psi	D638	225,000
Elongation @ Break	%	D638	>600
Elongation @ Yield	%	D638	9.8
Flexual Modulus	psi	D790	185,000
Flexual Stress@5% Strain	psi	D790	3,810
Compressive Properties 10% Stain	psi	D695	4,950
Durometer	Shore D	D2240	68
Tensile Impact	ft lbs/in <sup>2</sup>	D1822	115
Izod Impact Resistance	ft lbs/in <sup>2</sup>	D256	1.1
Brittleness Temp.	°F	D746	<-105°
Vicat Softening	°F	D1525	253°
Heat Deflection Temp. 66p.s.i.	°F	D648	210°
Screw and Nail Withdrawl	lbs	D1761	657 & 63
Flamability	Rating	UL94	HB

\*All values are determined on specimens prepared according to ASTM Standards. Nominal values should not be interpreted as specifications.

King KPC HDPE is made entirely from FDA and USDA approved materials.

King KPC HDPE meets ASTM ASTM D4976 PE235

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