



King KPC LDPE Natural is Made With FDA and USDA-Approved Materials. Easily Fabricated, Welded and Thermoformed. King KPC LDPE is Moisture Resistant, Impact Resistant and Flexible

King KPC low-density polyethylene is produced with our proprietary K-Stran™ process for unsurpassed flatness and quality up to 1-1/2" in thickness. For gauges up to 4", our state-of-the-art compression molding system is utilized to create the same quality slabs. We also use a proprietary process that makes massive shapes. King KPC LDPE extruded sheets are very pliable with a low Durometer of 42, and a smooth soft translucent appearance. King KPC LDPE uses a special formulation with the finest FDA and USDA approved materials. Stock sheet is ideal for applications such as stencils, orthopedics, packaging, sound deadening, and the automotive industry. Other applications may include trays, general-purpose containers, food storage, laboratory containers, and corrosion-resistant work surfaces. KPC LDPE sheets are also used for applications where corrosion resistance is a factor but stiffness, high temperatures and structural strength are not.

We also offer our King KPC LDPE in a special grade, which is certified as a barrier material or radiation shielding on nuclear naval warships, submarines and certain medical applications. King Plastic Corporation is certified by prime vendors of the U.S. government as the source for type V neutron shielding material. Our processes, materials, quality programs, sampling testing, and packaging all meet or exceed military specification MIL-P-23536A. King KPC LDPE is RoHS compliant.

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## Applications

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- Electrical Insulators
- Die Cut Parts
- Food Storage
- Neutron Shielding
- Orthopedic and Prosthetic Appliances
- Root Barriers
- Stencils
- Vacuum-formed parts

## Specifications

### Standard Sheet Size

**in:** 48" x 96"

**mm:** 1219mm x 2438mm

### Standard Gauges

**in:** 1/16" | 3/32" | 1/8" | 3/16" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1-1/4"  
**mm:** 1.6mm | 2.4mm | 3.2mm | 4.8mm | 6.4mm | 9.5mm | 12.7mm | 19.1mm | 25.4mm | 31.8mm

**in:** 1-1/2" | 1-3/4" | 2" | 2-1/4" | 2-1/2"  
**mm:** 38.1mm | 44.5mm | 50.8mm | 57.2mm | 63.5mm

### Approximate Weight

**lbs:** 9.5lbs | 14.3lbs | 19lbs | 29lbs | 38lbs | 57lbs | 76lbs | 95lbs | 115lbs | 153lbs  
**kg:** 4.3kg | 6.48kg | 8.6kg | 13.15kg | 17.2kg | 25.85kg | 34.47kg | 43kg | 52.1kg | 69.39kg

**lbs:** 191lbs | 229lbs | 305lbs | 344lbs | 382lbs  
**kg:** 86.63kg | 103.87kg | 121kg | 156kg | 173.27kg

### Tolerance Information:

#### K-Stran™

Gauges 1/16" through 1-1/2" ± 5% | Length and width plus only at room temperature

#### Compression Molding

Gauges greater than 1" and under 1-1/2" ± 10% | Gauges 1-1/2" and greater plus only | Length and width plus only at room temperature

Custom thickness up to 25"/635mm with our King Size Blocks and Massive Shapes

Custom sheet sizes, gauges and colors available

## Standard Color



Natural

Note: Color accuracy can vary considerably on computer monitors and printers. Please consult your distributor for a product sample before making critical color choices.

Properties	Units	ASTM	Nominal Values
Density	g/cc	D1505	0.918
Tensile Strength @ Break	%	D638	>500
Elongation @ Yield	p.s.i.	D638	>1,400
Flexural Modulus	p.s.i.	D790	30,000
Durometer	Shore D	D785	42
Izod Impact, Notched	ft. lbs./in. <sup>2</sup>	D256	No Break
Brittleness Temp.	°C (°F)	D746	<-76°C (<-105°F)
Vicat Softening Temp.	°C (°F)	D1525	89°C (192°F)
Heat Deflection Temp. 66p.s.i.	°C (°F)	D648	50°C (122°F)
Haze	%	D1003	12.7
Dart Drop Impact Strength	g	D1709	130
Elmendorf Tear Strength	g	D1922	340

King KPC LDPE meets FDA 21 CFR 177.1520.

King KPC LDPE meets the requirements of Mil-P-23536 Rev A.

King KPC LDPE meets the requirements of EU Food Contract.

King KPC LDPE meets ASTM D4976.

King KPC LDPE is RoHS compliant.



King Plastic Corporation

Our Innovation. Your Imagination.®

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