



King Performance Commodity Acrylonitrile Butadiene Styrene

King KPC ABS is an Acrylonitrile Butadiene Styrene material known for its gloss surface, hardness, impact and heat resistance, toughness, and electrical insulation properties. It is manufactured in our state-of-the-art compression mold. King KPC ABS has a smooth gloss finish on both sides of the sheet. The advantage of King KPC ABS is the improved strength and rigidity of the acrylonitrile and styrene polymers with the toughness of the polybutadiene rubber. It has high and low temperature performance. King KPC ABS is ideal for a variety of industrial applications from prototyping, modeling, electronics to mechanical and automobile applications. The material is easy to machine and fabricate.

Applications

- Automotive Parts
- Industrial Enclosures
- Machine Parts
- Prototype Modeling
- Short Run Production Parts

Specifications

Standard Sheet Sizes

in: 24" x 48" 48" x 96"
mm: 610 mm x 1219 mm 1219 mm x 2438 mm

Black & Natural: 24" x 48" and 48" x 96", gauges starting at 1/16" up to 4"

Standard Gauges

in: 1/16" | 1/8" | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2"
mm: 1.587 mm | 3.175 mm | 6.35 mm | 8.81 mm | 12.7 mm | 15.87 mm | 19 mm | 25.4 mm | 31.75 mm | 38.1 mm

in: 1-3/4" | 2" | 2-1/4" | 2-1/2" | 3" | 4"
mm: 44.45 mm | 50.8 mm | 57.15 mm | 63.5 mm | 76.2 mm | 101.6 mm

Approximate Weight per Sq. Ft.

lbs: .3375 lbs | .675 lbs | 1.35 lbs | 2 lbs | 2.7 lbs | 3.4 lbs | 4.1 lbs | 5.4 lbs | 6.75 lbs | 8.1 lbs
kg: .153 kg | .306 kg | .612 kg | .907 kg | 1.224 kg | 1.54 kg | 1.85 kg | 2.45 kg | 3.06 kg | 3.67 kg

lbs: 9.5 lbs | 10.8 lbs | 12.15 lbs | 13.5 lbs | 16.2 lbs | 21.6 lbs
kg: 4.3 kg | 4.89 kg | 5.51 kg | 6.12 kg | 7.35 kg | 9.8 kg

Tolerance Information:

Compression Molding

Gauges 1/16" through under 1-1/2" ± 10% | Gauges 1-1/2" and greater plus only | Length and width plus only at room temperature
 Custom gauges available upon request

Properties	Units	ASTM	Nominal Values Black/Natural ABS
Density	g/cc	D1505 / D792	1.03
Tensile Strength @ Yield	psi	D638	>6,000
Elongation @ Break	%	D638	40
Flexural Modulus	psi	D790	300,000
Flexural Strength	psi	D790	10,700
Durometer	R Scale	D785	102
Izod Impact	ft.lbs./in.	D256	7.7
Vicat Softening Temp.	°C (°F)	D1525	104°C (219°F)
Heat Deflection Temp. 66psi	°C (°F)	D648	94°C (201°F)
Flammability	Rating	UL94	HB

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

Nominal values should not be interpreted as specifications.

King KPC ABS Black is made entirely from FDA approved materials.

King KPC ABS Natural is made entirely from FDA approved materials.

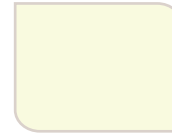
King KPC ABS Black/Natural does not contain any or the 29 substances of very high concern based on the European Chemical Agency.

King KPC ABS Black/Natural are RoHS Compliant.

Standard Colors



Black



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.



King Plastic Corporation

Our Innovation. Your Imagination.®

1100 N. Toledo Blade Blvd. | North Port, FL 34288 USA

P: 941.493.5502 | F: 941.497.3274 | www.kingplastic.com



MADE IN USA