



## King KPC ABS in a FR (flame retardant) Formulation is Used in Applications Such as Transformer Housings, Switches, Shelving, Air Conditioners and Electrical Components

The advantage of King KPC ABS Black FR is that this material combines strength and rigidity of the acrylonitrile and styrene polymers with the toughness of the polybutadiene rubber. A variety of modifications have been made to improve impact resistance, toughness and heat resistance. The impact resistance does not fall off rapidly at low temperatures and stability under load is excellent with limited loads. King KPC ABS Black FR is considered superior for its hardness, gloss, toughness, and electrical insulation properties. KPC ABS Black FR is easily machinable and available in smaller sizes. It is extensively used in prototyping, the modeling industry and other mechanical applications.

King KPC ABS Black FR is manufactured in our state-of-the-art compression molding system located in North Port, Florida.

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### Applications

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- Air Conditioning Components
- Industrial Enclosures
- Shelving
- Switches
- Transformer Housings

## Specifications

### Standard Sheet Sizes

**in:** 48" x 96"  
**mm:** 1219mm x 2438mm

### Standard Gauges

**in:** 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | 1-3/4" | 2" | 2-1/4" | 2-1/2"  
**mm:** 12.7mm | 15.87mm | 19mm | 25.4mm | 31.75mm | 38.1mm | 44.45mm | 50.8mm | 57.15mm | 63.5mm

**in:** 3"  
**mm:** 76.2mm

### Approximate Weight

**lbs:** 101.5lbs | 128.8lbs | 152.2lbs | 202.9lbs | 253.7lbs | 304.4lbs | 355.2lbs | 405.9lbs | 456.6lbs | 507.4lbs  
**kg:** 46.03kg | 58.42kg | 69.03kg | 92.03kg | 115.07kg | 138.07kg | 161.11kg | 184.11kg | 207.11kg | 230.15kg

**lbs:** 608.8lbs  
**kg:** 276.14kg

### Tolerance Information:

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

Properties	Units	ASTM	Nominal Values	Flammability Rating for KPC ABS FR		
Density	g/cc	D1505	1.19	Nominal Thickness	Nominal Values Unit UL	Test Method UL 94
Tensile Strength @ Break	%	D638	20	0.0591 in	V-O	UL 94
Elongation @ Yield	psi	D638	>6,400	0.0787 in	V-O/•5VB	UL 94
Flexural Modulus	psi	D790	377,000	0.0984 in	V-O/•5VB	UL 94
Durometer	R Scale	D785	97	0.118 in	V-O/•5VB	UL 94
Izod Impact	ft.lbs./in.	D256	5.51			
Vicat Softening Temp.	°C (°F)	D1525	83°C (181°F)			
Heat Deflection Temp. 66psi	°C (°F)	D648	87°C (189°F)			
Flammability	Rating	UL94	V-0			

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

Nominal values should not be interpreted as specifications.

This raw material contains UV stability.

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

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

King KPC ABS Black FR is RoHS Compliant.

## Standard Color



Black

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