

# KING FLAME SHIELD

## Upgrade to King FlameShield ASTM E-84 Class A or Class B Flame Compliance and CAN/ULC-S102 for Canadian Compliance

King Plastic Corporation HDPE products with King FlameShield are improved in physical properties and cost effective compared to competing materials. We offer a Class A or Class B upgrade and CAN/ULC-S102 for Canadian compliance that improves the material's overall physical properties to be more resistant to burning under flammable conditions.

ASTM E-84 is the primary standard used worldwide for contractors, architects and engineers to improve product quality and enhance safety. Additional details are available at [astm.org](http://astm.org)

For more information on King FlameShield, visit [www.kingplastic.com](http://www.kingplastic.com)

---

### Applications

---

- Bathroom Partitions
- Case Goods
- Contract Furniture
- Decorative Ceiling Panels
- Interior Signage
- Lockers
- Shelving
- Wall Panels

## Specifications

Please refer to specific product

Properties	Units	ASTM	Nominal Values		
Density	g/cc	D1505	1.04		
Tensile Strength @ Break	psi	D638	1,170		
Tensile Strength @ Yield	psi	D638	3,780		
Tensile Modulus of Elasticity	psi	D638	183,000		
Elongation @ Break	%	D683	53		
Elongation @ Yield	%	D638	8.6		
Flexural Modulus	psi	D790	179,000		
Flexural Stress @ 5% Strain	psi	D790	4,330		
Durometer	Shore D	D2240	71		
Vicat Softening Temp.	°C (°F)	D1525	129°C (264°F)		
Heat Deflection Temp. 66 psi	°C (°F)	D648	86.6°C (188°F)		
Thermal Expansion			Class A	Class B	
Surface Burning Characteristics		E84	20 & 60	60 & 450	FSI & SDO
Surface Burning Characteristics		ULC-S102	20 & 65	60 & 450	FSI & SDI

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

### Tolerance information:

Please refer to specific product information

Disclaimer: FlameShield will affect finish and color



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](http://www.kingplastic.com)