

# KING FLAME SHIELD

## Upgrade to King FlameShield ASTM E-84 Class A 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 upgrade 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)

### Applications

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

The logo for JJ Downs Industrial Plastics Inc, featuring the letters 'JJD' in a bold, italicized, sans-serif font.

JJ DOWNS INDUSTRIAL PLASTICS INC

[JJDOWNS.COM](http://JJDOWNS.COM)

## 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	in./in./°F	D696	6 x 10 <sup>-5</sup>

Properties	Units	ASTM	Class A
Surface Burning Characteristics	FSI & SDI	E84	20 & 60
Surface Burning Characteristics	FSV & SDV	ULC-S102	20 & 65

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

Nominal values should not be interpreted as specifications.

For ASTM E-84 Class B, please call customer service.

### Tolerance information:

Please refer to specific product information

Disclaimer: FlameShield will affect finish and color

# JJD

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