

# KING FLAME SHIELD

## Tolerance information:

Please refer to specific product information

Disclaimer: FlameShield will affect finish and color

Please note King FlameShield additive will not affect the physical properties of the material

| 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.

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