

# 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                 | °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.

King Plastic Corporation Limit of Warranty is your money refunded or defective material replaced. All statements, information and data given herein are believed to be accurate and reliable. It is presented without guaranty, warranty or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement, and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required.

