

# Royalite® S510

Fire-rated sheet

## Product Description

Royalite® S510 thermoplastic sheet provides a unique PVC/ABS product that meets many industry flammability standards. It combines high impact strength with cold temperature ductility and formability. Royalite S510 is an excellent choice for a wide variety of general purpose fire rated applications.

## Technical Properties

Property	Test Method	Value*
Specific Gravity (color dependent)	ASTM D-792	1.18 - 1.25
Tensile Strength	ASTM D-638	4,800 psi
Flexural Strength	ASTM D-790	8,000 psi
Flexural Modulus	ASTM D-790	300,000 psi
Izod Impact (Notched) 72°F	ASTM D-256	6.0 ft-lbs/in
Izod Impact (Notched) -40°C	ASTM D-256	1.6 ft-lbs/in
Rockwell Hardness (R Scale)	ASTM D-785	92
Heat Deflection Temperature (@ 264 psi - annealed)	ASTM D-648	170°F
Coefficient of Linear Thermal Expansion	ASTM D-696	4.6 - 5.5x10 <sup>-5</sup> in/in/°F
Mold Shrinkage	Internal	0.005 - 0.007 in/in
Motor Vehicle Safety Standard	FMVSS 302	Passes
Flammability	UL 94 V-0	Listed @ 0.090" Black only
Flammability	UL 94-HB	Listed @ 0.060" white only

*\*All values based on 0.125" unless otherwise stated*

For additional information, please contact Spartech at 800-677-4338 (800-67-SHEET), e-mail [info@spartech.com](mailto:info@spartech.com) or visit our website at [www.spartech.com](http://www.spartech.com)

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