

Royalite® R98/R21

Weatherable Rigid ABS Sheet

Product Description

Royalite® R98/R21 thermoplastic sheet provides a weatherable acrylic cap to our rigid ABS with an ideal balance of properties not available in most low-cost ABS sheets. It combines high impact strength and outstanding formability with high tensile strength, high stiffness, and excellent low and high temperature performance. The acrylic cap protects the surface, providing excellent weatherability for outdoor use.

Technical Properties

Property	Test Method	Value*
Specific Gravity (color dependent)	ASTM D-792	1.02 – 1.08
Tensile Strength	ASTM D-638	4,800 psi
Flexural Strength	ASTM D-790	8,000 psi
Flexural Modulus	ASTM D-790	270,000 psi
Izod Impact (Notched) 72°F	ASTM D-256	7.0 ft-lbs/in
Izod Impact (Notched) -20°F	ASTM D-256	2.5 ft-lbs/in
Rockwell Hardness (R Scale)	ASTM D-785	96
Heat Deflection Temperature (@264 psi - annealed)	ASTM D-648	208°F
Thermal Conductivity	ASTM C-177	1.7 – 2.1 BTU/in/hr/ft ² /°F
Coefficient of Linear Thermal Expansion	ASTM D-696	4.2 – 5.6 x10 ⁻⁵ in/in/°F
Mold Shrinkage	Internal	0.005 – 0.007 in/in
Motor Vehicle Safety Standard	FMVSS 302	Passes

**All values based on 0.125" unless otherwise stated and no use of customer regrind*

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

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