

Royalite® R21

Rigid ABS sheet

Product Description

Royalite® R21 thermoplastic sheet is an economical, rigid ABS product that provides 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.

Technical Properties

Property	Test Method	Value*
Specific Gravity (color dependent)	ASTM D-792	1.02 - 1.08
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
Tensile Strength	ASTM D-638	4,800 psi
Flexural Strength	ASTM D-790	8,000 psi
Flexural Modulus	ASTM D-790	270,000 psi
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*

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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