

# Royalite® R20

Rigid ABS sheet

## Product Description

Royalite® R20 thermoplastic sheet is a rigid ABS product with a combination of properties that makes it ideal for the widest range of applications. It has very high impact strength and stiffness, excellent high and low temperature performance and outstanding formability.

## 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	8.0 ft-lbs/in
Izod Impact (Notched) -20°F	ASTM D-256	5.0 ft-lbs/in
Tensile Strength	ASTM D-638	4,700 psi
Flexural Strength	ASTM D-790	7,000 psi
Flexural Modulus	ASTM D-790	230,000 psi
Rockwell Hardness (R Scale)	ASTM D-785	88
Heat Deflection Temperature (@264 psi - annealed)	ASTM D-648	205°F
Thermal Conductivity	ASTM C-177	1.7 - 2.1 BTU/in/hr/ft <sup>2</sup> /°F
Coefficient of Linear Thermal Expansion	ASTM D-696	4.2 - 5.6x10 <sup>-5</sup> 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](mailto:info@spartech.com) or visit our website at [www.spartech.com](http://www.spartech.com)

Customers are responsible for determining whether products and information are appropriate for their use, including the evaluation of all applicable laws. Spartech LLC assumes no liability for the accuracy or completeness of information contained herein, and such information is subject to change without notice. All products supplied are subject to the standard terms and conditions of sale of Spartech LLC. **NO WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, IS MADE BY THIS TECHNICAL DATA SHEET. ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.**