

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 ² /°F |
| Coefficient of Linear Thermal Expansion | ASTM D-696 | 4.2 - 5.6x10 ⁻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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