

Royalite® R503

Fire-rated flexible sheet

Product Description

Royalite® R503 is a flexible, low gloss, fire-rated, recyclable proprietary thermoplastic sheet specifically formulated to meet the requirements of the FAR 25.853(a) flammability* test. Royalite® R503 combines extremely high impact strength with moderate stiffness with excellent formability in deep draws.

Technical Properties

Property	Test Method	Value**
Specific Gravity (color dependent)	ASTM D-792	0.93
Hardness - Shore A	ASTM D-2240	93
Tensile Strength	ASTM D-412	1,065 psi
Tensile Elongation at Break	ASTM D-412	1225%
Flexural Modulus	ASTM D-790	1,700 psi
Izod Impact (Unnotched-Machine Direction) 72°F	ASTM D-256	No Break
Instrumented Impact - Total Energy at 72°F	ASTM D-3763	18 ft-lbs
Instrumented Impact - Total Energy at -30°C	ASTM D-3763	20 ft-lbs
Heat Deflection Temperature (@66 psi)	ASTM D-648	104°F
Taber Abrasion	ASTM D-1044	No wear through
Tear Strength - Die C	ASTM D-624	98.5 psi
Gardner Gloss	ASTM D-523	< 5.0 Gloss Units-60°
Flammability - Vertical Burn - 12 second	FAR 25.853 (a)(ii)	Passes at 0.120"

**All values based on 0.125" unless otherwise stated

* This term and any corresponding data refer to typical performance in the specific tests indicated and should not be construed to imply this material's behavior under actual fire conditions.

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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