

Spartech Royalite R57 FR/ABS Aircraft Grade Sheet

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Sheet

Material Notes:

Description: Aircraft Grade Sheet Information provided by Spartech.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-Royalite-R57-FRABS-Aircraft-Grade-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 - 1.26 g/cc	1.18 - 1.26 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ASTM D785
Tensile Strength, Yield	34.5 MPa	5000 psi	ASTM D638
Flexural Yield Strength	53.8 MPa	7800 psi	ASTM D790
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
Izod Impact, Notched	4.81 J/cm	9.00 ft-lb/in	73°F; ASTM D256
	0.854 J/cm	1.60 ft-lb/in	ASTM D256
	@Temperature -28.9 °C	@Temperature -20.0 °F	
Impact Test	40.7 J	30.0 ft-lb	Dynatup Instrumented Impact; ASTM D3763
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	82.8 - 99.0 µm/m-°C	46.0 - 55.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C	172 °F	ASTM D648

Descriptive Properties	Value	Comments
FAA 12 Second Vertical Burn	Passes	FAR Pt 25, App F, Pt I
Flammability	Passes	MVSS (Motor Vehicle Safety Standard) 302

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