

Spartech Royalite R6000 FR-PC Aircraft Grade Sheet

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Description: Aircraft Grade Sheet Information provided by Spartech.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-Royalite-R6000-FR-PC-Aircraft-Grade-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	61.4 MPa	8900 psi	ASTM D638
Flexural Yield Strength	97.9 MPa	14200 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	8.01 J/cm	15.0 ft-lb/in	73°F; ASTM D256
Impact Test	54.2 J @Temperature 22.8 °C	40.0 ft-lb @Temperature 73.0 °F	Dynatup Instrumented Impact; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 Åµm/m-Å°C @Temperature 20.0 Å°C	35.0 Åµin/in-Å°F @Temperature 68.0 Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	132 Å°C	270 Å°F	ASTM D648

Descriptive Properties	Value	Comments
FAA 12 Second Vertical Burn	Passes	FAR Pt 25, App F, Pt I
FAA 60 Second Vertical Burn	Passes	FAR Pt 25, App F, Pt I
FAA Smoke Generation	Passes	FAR Pt 25, App F, Pt V
Flammability	Passes	MVSS (Motor Vehicle Safety Standard) 302
Toxic Gas Generation	Passes	Boeing/Airbus

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