



Plastics Help Innovative Ideas Take Off.

ROYALITE®

From seats and trays to bulkheads, window shades, lavatory parts, galley carts and flooring there are a lot of essential parts that go into the interior of an aircraft. Spartech meets all these design challenges with Royalite aerospace-rated thermoplastic sheet. The available materials compliant with FAR 25.853(a)(i), FAR 25.853(a)(ii), and FAR 25.853(d) aviation ratings are R52, R57, R60, R105, R503, R552, R557, and R755.

KEY CHARACTERISTICS

- High tensile strength and stiffness for superior impact resistance
- Excellent formability, hot tear strength, ductility and ability to maintain uniform wall thickness
- Resists staining, fading, cracking and crazing caused by harsh cleansers
- Meets heat deflection temperature requirements
- Available in 0.028"– 0.375" thickness
- Choose from a variety of popular surface textures, colors and printed patterns

- Antimicrobial protection is available
- Ideal for laminating, fabricating and machining everything from seat parts and bulkhead laminates to monitor shrouds, window shades and tray tables
- UV decorative printed patterns enhance the appearance of the parts

POLYCAST® – SHEET AND ROD & TUBE

Polycast Acrylic Sheet adhering to Military Material Specifications MIL-PRF-5425, MIL-PRF-8184, MIL-PRF-25690, and ASTM 4802 / LP391 for Aerospace applications including dust covers for windows, aircraft canopies, cabin windows, and lenses also available.

Parts for precision equipment such as a site glass or reservoir for a fluid in an avionics system are machined using Polycast acrylic tubes. If specifications such as the inside diameter of the part are critical, the tight tolerances maintained using the cell casting process will deliver parts with the required specifications.

Call 800-677-4338 or email marketing@spartech.com to order these products.

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ROYALITE FLAME AND SMOKE RATED SHEET			
PRODUCT	MATERIAL	DESCRIPTION/APPLICATIONS	SPECIFICATIONS
R503	TPR	Fire-rated TPR flexible sheet Applications: Aircraft interior, aircraft flooring	Passes: FAR 25.853 (a)(ii) @ 0.120"
R52	PVC/Acrylic	Fire-rated PVC/Acrylic rigid sheet Applications: Medical and electronic components and enclosures; aircraft cabin and seat components; mass transit; building and construction	Listed: UL 94 V-0 @ 0.027" Listed: UL 94-5VA @ 0.051" Passes: FAR 25.853 (a)(i)&(ii) @ 0.028" Class A: ASTM E84 @ 0.028", bonded
R57	PVC/ABS	Fire-rated PVC/ABS rigid sheet Applications: Aircraft cabin and seat components	Passes: FAR 25.853 (a)(ii) @ 0.047"
R60	PVC/Acrylic	Fire-rated PVC/Acrylic rigid sheet Applications: Aircraft cabin and seat components	Passes: FAR 25.853 (a)(i) @ 0.040"
R105	PVC/Acrylic	Soft vinyl foam laminated to PVC/Acrylic Applications: Aerospace seat components	Listed: UL 94 V-0 @ 0.028" and above Listed: UL 94 5VA @ 0.118" and above Listed: UL 94 5VB @ 0.047" and above Class-A: ASTM E84 @ 0.060" Meets: G-22 for resistance to bacterial growth Passes: FAR 25.853 (a)(i) & (ii) @ 0.125"
R552	PVC/Acrylic	100% Recycled option fire-rated PVC/Acrylic Applications: Aircraft cabin and seat components	Listed: UL 94 V-0 @ 0.031" Listed: UL 94 5VA @ 0.094" Passes: FAR 25.853 (a)(i) @ 0.040"
R557	PVC/ABS	100% Recycled option for Fire-rated PVC/ABS Benefits are lighter weight and higher HDT Applications: Aircraft cabin and seat components	Passes: FAR 25.853 (a)(ii) @ 0.047"
R755	PVC/Acrylic	Fire-rated PVC/Acrylic rigid sheet Applications: Aircraft cabin and interior parts	Passes: FAR 25.853 (d)-part V and IV

POLYCAST ACRYLIC SHEET			
PRODUCT	MATERIAL	DESCRIPTION/APPLICATIONS	SPECIFICATIONS
Poly A	Cast Acrylic	Standard unshrunk acrylic, available in clear and transparent colors Applications: Non-critical glazing for commercial helicopters and sport planes	ASTM D4802, LP-391
SAR	Cast Acrylic	Super abrasion resistant acrylic sheet with polysilicate coating, 45x abrasion resistance of uncoated acrylic, half the weight of glass, transparent, translucent, opaque colors available Applications: Dust covers for windows	ASTM 4802, LP-391
Poly II	Cast Acrylic	Heat-resistant, preshrunk, clear, and colored acrylic sheet Applications: Dust covers for windows, aircraft transparencies, illuminated cockpit panels	MIL-PRF-5425
Poly 76	Cast Acrylic	A crosslinked, preshrunk acrylic with excellent resistance to crazing, solvent attacks and dimensional change Applications: Monolithic windscreens, outer laminates, canopies	MIL-PRF-8184, Type I and II and Class 1
Poly 84	Cast Acrylic	A uniquely formulated, crosslinked, preshrunk acrylic. With lower water absorption, it is specifically designed to provide superior craze and solvent resistance for today's changing environment Applications: Monolithic windscreens, outer laminates, canopies	MIL-PRF-8184, Type I and II, Class 1 and 2
Poly 2000	Stretched Acrylic	Cross-linked, preshrunk, stretched acrylic sheet with superior craze and solvent resistance Applications: Monolithic windscreens, outer laminates, canopies, cabin windows	MIL-PRF-25690