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Product Bulletin

Custom Engineered Structures

Polycast UV-SCTM UV Blocking & Solar Heat Control Cell Cast Acrylic

Product Description

Polycast UV-SC[™] is a custom cell cast acrylic sheet solution that blocks out significant amounts of near-Infrared radiation while maintaining high visible light transmission. Polycast UV-SC is an aircraft-quality product able to be manufactured to MIL-PRF 5425, 8184 and 25690, DTD-5592, LP-391, ASTM D 4802 and other standards. It is available in a wide range of colors and/or light transmissions, including night vision compatability.



Value Solution

Full ultraviolet (UV) protection creates safer aircraft

Polycast UV-SC is an aircraft-quality acrylic solution suitable for thermoforming applications. It offers full UV protection for pilots and aircraft interior components without losing acrylic's superior light transmission qualities.

The lower cockpit temperatures – more than 20° F cooler while on the ground – offered by Polycast UV-SC creates a more comfortable interior for aircraft personnel and passengers as well as protects the extended service life of expensive electronic equipment used in the cockpit. Traditional UV-blocking materials require tinting and lose light transmission.

Key Characteristics

The primary features and benefits of Polycast UV-SC custom acrylic sheet are:

- •Full UV protection for pilots and aircraft interiors
- Cooler, more comfortable interiors, especially while on the ground (20° F cooler)
- Lower cockpit temperatures may increase the service life of expensive electronic equipment
- · Higher visibility than traditional tinted materials
- Can be supplied in a variety of color shades, from nearcolorless to standard colors traditionally used for aircraft, including night vision compatible colors

Markets and End-Use Applications

Aircraft

- Windshields, cabin windows, side windows, skylights, door windows, eyebrows and chin bubbles used on fixed wing and rotary wing helicopters
- Available for both private and commercial aircraft from light sport to corporate, civil and military

Architectural

Sunroom additions, outdoor living areas, traditional windows, security barriers, and skylights

Marine

- Boat windshields, marine windows and doors and hatch covers
- Heavy Construction Equipment
- Cab covers, windshields, and canopies

Recreational Vehicles

Windshields, windows, external pop-outs, and skylights

Transportation

Bus transit, rail and automotive transparent glazing applications

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ISO 9001:2008 and ISO 13485:2003 Certified

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