

Polycast UV-SC™

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 compatibility.

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 near-colorless 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

PolyOne Americas

33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000

PolyOne Asia

Guoshoujing Road No. 88
ZJ Hi-Tech Park, Pudong
Shanghai, 201203, China
+86 (0) 21 5080 1188

PolyOne Europe

6 Gälllewee
Fischbach, Luxembourg L-9749
+32 (0) 83 660 211

www.polyone.com

MEDIA CONTACT INFORMATION

Kyle Rose
Director, Corporate Communications
PolyOne Corporation
+1 440 930 3162
Kyle.Rose@polyone.com

Christi Emmenegger
Marketing Communications Manager
PolyOne Designed Structures and Solutions, LLC.
+1 314 721 4242
Christi.Emmenegger@polyone.com

