

U-Lite™ – 4mm Danpalon Performance Summary

RV 01-12

| Test Description | Test Procedure | Results & Comments |
|--|---|--|
| 1) FLAMMABILITY Self-Ignition Smoke Density Burn Extent Interior Flame Spread | ASTM 1929-3 ASTM D2843 ASTM D635 ASTM E-84 | 1120° F 54% CC1 Rating Class A |
| 2) WEATHERING Weathering Evaluation Color Change Yellowing Index Light Transmission | ASTM D4364-84 ASTM D2244 ASTM D1925 ASTM D1003 | Successful exposure to concentrated natural sunlight radiation of 56000 MJ/M ² No more than 3.0 units Delta E after 60 mo. No more than 10 points after 60 mo. Shall not decrease more than 6% after 10 yrs. |
| 3) IMPACT Hail resistance Large Missile Impact | ASTM E-222-81 SPI (Method B) | Panel repels hailstones of 25mm at velocity of 21 m/sec with no penetration 220 Ft. Lbs. |

PANEL PROPERTIES AND DIMENSIONS

Standard Size: Glazing Panel = 23 5/8" (592 mm) wide x up to 19.5" long
 System Module = 23 3/4" wide (c/c with spacer) by up to 19.5" long

Weight of glazing panel: 0.98 LB / SF

Weight of entire panel system: 1.5 – 2 lbs / SF depending on system configuration

Thermal Expansion: Linear thermal expansion = 0.0000375 In/In/°F

U Value: Thermal insulation factor = 0.94 Btu/(hr)(ft²)(°F)

OPTICAL PROPERTIES

| Color | STANDARD COLORS | | | CUSTOM COLORS | | | |
|-----------------------------|-----------------|-------|------------|---------------|-------|--------|------|
| | IW | White | Reflective | Green | Clear | Bronze | Blue |
| Visible Light Transmission | 55% | 40% | 20% | 75% | 89% | 38% | 64% |
| Solar Transmission | 58% | 44% | 18% | 69% | 80% | 41% | 73% |
| Solar Heat Gain Coefficient | 0.61 | 0.48 | 0.28 | 0.72 | 0.81 | 0.50 | 0.75 |

LT - % of visible light transmission (400-700 nm)

ST- %of total solar radiation transmission (300-2800 nm)

SHGC – Solar Heat Gail Coefficient, total solar energy transmitted through the panel = %ST +0.2x[1-(%st+%sr)]

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