

U-Lite™ – 4mm Danpalon Performance Summary

RV 05-09

Test Description	Test Procedure	Results & Comments
1) FLAMMABILITY Self-Ignition Smoke Density Burn Extent	ASTM 1929-3 ASTM D2843 ASTM D635	1120° F 54% CC1 Rating
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			
	Clear	IW	Green	White	Bronze	Blue	Reflective
Visible Light Transmission	89%	55%	75%	40%	38%	64%	20%
Solar Transmission	80%	58%	69%	44%	41%	73%	18%
Solar Heat Gain Coefficient	0.81	0.61	0.72	0.48	0.50	0.75	0.28

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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