ACRYLITE® Selection Chart

ACRYLITE® acrylic multi-skin sheet

	ACRYLITE® Resist			ACRYLITE® Alltop		
	8 mm ACRYLITE® Resist high impact acrylic double-skin sheet	16 mm ACRYLITE® Resist high impact acrylic double-skin sheet	32 mm ACRYLITE® Resist high impact acrylic quad-skin sheet	16 mm ACRYLITE® Alltop high impact acrylic double-skin sheet	16 mm ACRYLITE® Alltop UV transmitting acrylic double-skin sheet	16 mm ACRYLITE® Alltop UV absorbing acrylic double-skin sheet
Light Transmittance (clear)	84%	86%	76%	89%	91%	91%
Light Transmittance (Other Colors)	light white - 62%	light white - 74% bronze - 53% solar cool white - 37%	light white - 64%	N/A	N/A	N/A
UV Blocking	yes	yes	yes	yes	no	no
Patented No Drip	yes	yes	yes	yes	yes	yes
Anti-Algae	no	yes	no	no	no	no
Energy Values						
R-Value	1.78°F/BTU•hr•ft²	2.04°F/BTU•hr•ft²	3.57°F/BTU•hr•ft²	2.04°F/BTU•hr•ft²	2.04°F/BTU•hr•ft²	2.04°F/BTU•hr•ft²
U-Value	3.4 W/m²K (0.56 BTU/hr•ft²•°F)	2.5 W/m²K (0.49 BTU/hr•ft²•°F)	1.6 W/m²K (0.28 BTU/hr•ft²•°F)	2.5 W/m²K (0.49 BTU/hr•ft²•°F)	2.5 W/m²K (0.49 BTU/hr•ft²•°F)	2.5 W/m²K (0.49 BTU/hr•ft²•°F)
New Product Warranty						
Light Transmission Warranty (clear)	yes	yes	yes	yes	yes	yes
No Yellowing Warranty	yes	yes	yes	yes	yes	yes
Hail Warranty	yes	yes	yes	yes	yes	yes
Geometry						
Thickness	8 mm (5/16")	16 mm (5/8")	32 mm (1 1/4")	16 mm (5/8")	16 mm (5/8")	16 mm (5/8")
Rib Spacing	16 mm (5/8")	32 mm (1 1/4")	32 mm (1 1/4")	64 mm (2 1/2")	64 mm (2 1/2")	64 mm (2 1/2")
Width	1200 mm (47 1/4")	1200 mm (47 1/4")	1230 mm (48 7/16")	1200 mm (47 1/4")	1200 mm (47 1/4")	1200 mm (47 1/4")
Length	up to 10973 mm (36 ft)	up to 10973 mm (36 ft)	up to 7340 mm (24 ft)	up to 8550 mm (28 ft)	up to 8550 mm (28 ft)	up to 8550 mm (28 ft)
Approximate Area Weight	3.3 Kgm² (0.7 lb/ft²)	4.5 Kgm² (0.9 lb/ft²)	6.4 Kgm² (1.3 lbs/ft²)	4.9 Kgm² (1 lb/ft²)	4.9 Kgm² (1 lb/ft²)	4.9 Kgm² (1 lb/ft²)
Weighted Sound Reduction Index	23 dB	24 dB	24 dB	22 dB	22 dB	22 dB
Minimum Cold-Forming Radius	48"	96"	not recommended	not recommended	not recommended	not recommended
Coefficient of Heat Expansion (α)	0.09 mm/m °C (0.00005 in/in/°F)	0.09 mm/m °C (0.00005 in/in/°F)	0.09 mm/m °C (0.00005 in/in/°F)	0.09 mm/m °C (0.00005 in/in/°F)	0.09 mm/m °C (0.00005 in/in/°F)	0.09 mm/m °C (0.00005 in/in/°F)
Expansion Due to Heat and Moisture	6 mm/m (1/16"/ft)	6 mm/m (1/16"/ft)	6 mm/m (3/32"/ft)	6 mm/m (1/16"/ft)	6 mm/m (1/16"/ft)	6 mm/m (1/16"/ft)
Maximum Service Temperature	70°C (160°F)	70°C (160°F)	70°C (160°F)	70°C (160°F)	70°C (160°F)	70°C (160°F)
Flammability						
ASTM D-635 (Rate of Burn)	C2/CC2	C2/CC2	C2/CC2	C2/CC2	C2/CC2	C2/CC2
CAN/ULC-S102.2 (Flame Spread Classification)	< 150	< 150	< 150	< 150	< 150	< 150
DIN 4102 (Combustibility)	B2	B2	B2	B2	B2	B2
ASTM D-1929 (Self Ignition Temperature)	830°F	830°F	830°F	830°F	840°F	840°F
ASTM D-2843 (Smoke Density Rating)	8.1%	7.0%	8.5%	7.0%	2.0%	2.0%

Values are approximate.

ACRYLITE® acrylic multi-skin sheet continued

	ACRYLITE® Heatstop	
	16 mm ACRYLITE® Heatstop high impact acrylic double-skin sheet	32 mm ACRYLITE® Heatstop high impact acrylic quad-skin sheet
Light Transmittance (clear)	N/A	N/A
Light Transmittance (Other Colors)	cool blue - 28%	pearl - 40%
UV Blocking	yes	yes
Patented No Drip	yes	yes
Anti-Algae	no	no
Energy Values		
R-Value	2.04°F/BTU•hr•ft²	3.57°F/BTU•hr•ft²
U-Value	2.5 W/m²K (0.49 BTU/hr•ft²•°F)	1.6 W/m²K (0.28 BTU/hr•ft²•°F)
New Product Warranty		
Light Transmission Warranty (clear)	yes	yes
No Yellowing Warranty	yes	yes
Hail Warranty	yes	yes
Geometry		
Thickness	16 mm (5/8")	32 mm (1 1/4")
Rib Spacing	32 mm (1 1/4")	32 mm (1 1/4")
Width	1200 mm (47 1/4")	1230 mm (48 7/16")
Length	up to 5550 mm (18 ft)	up to 7340 mm (24 ft)
Approximate Area Weight	4.5 Kgm² (0.9 lb/ft²)	6.4 Kgm² (1.3 lb/ft²)
Weighted Sound Reduction Index	24 dB	24 dB
Minimum Cold-Forming Radius	96"	not recommended
Coefficient of Heat Expansion (α)	0.09 mm/m °C (0.00005 in/in/°F)	0.09 mm/m °C (0.00005 in/in/°F)
Expansion Due to Heat and Moisture	6 mm/m (1/16"/ft)	6 mm/m (1/16"/ft)
Maximum Service Temperature	70°C (160°F)	70°C (160°F)
Flammability		
ASTM D-635 (Rate of Burn)	C2/CC2	C2/CC2
CAN/ULC-S102.2 (Flame Spread Classification)	< 150	< 150
DIN 4102 (Combustibility)	B2	B2
ASTM D-1929 (Self Ignition Temperature)	830°F	830°F
ASTM D-2843 (Smoke Density Rating)	7.0%	8.5%

ACRYLITE® acrylic wave profile

	ACRYLITE® Resist	ACRYLITE® Heatstop
	3 mm ACRYLITE® Resist high impact acrylic wave profile	3 mm ACRYLITE® Heatstop high impact acrylic wave profile
Light Transmittance (clear)	90%	N/A
Light Transmittance (Other Colors)	white - 72%, grey - 45% bronze textured - 75% bronze prismatic - 55%	cool blue - 22% pearl - 48%
UV Blocking	yes	yes
Patented No Drip	no	no
Anti-Algae	no	no
Energy Values		
R-Value	0.98°F/BTU•hr•ft²	0.98°F/BTU•hr•ft²
U-Value	6.02 W/m²K (1.06 BTU•hr•ft²•°F)	6.02 W/m²K (1.06 BTU•hr•ft²•°F)
New Product Warranty		
Light Transmission Warranty (clear)	yes	yes
No Yellowing Warranty	yes	yes
Hail Warranty	yes	yes
Geometry		
Thickness	3 mm (1/8")	3 mm (1/8")
Rib Spacing	N/A	N/A
Width	1045 mm (41.1")	1045 mm (41.1")
Length	up to 4,900 mm (16 ft)	up to 4,900 mm (16 ft)
Approximate Area Weight	3.3 Kgm² (0.7 lb/ft²)	3.3 Kgm² (0.7 lb/ft²)
Weighted Sound Reduction Index	22 dB	22 dB
Minimum Cold-Forming Radius	48"	48"
Coefficient of Heat Expansion (α)	0.08 mm/m °C (0.00004 in/in/°F)	0.08 mm/m °C (0.00004 in/in/°F)
Expansion Due to Heat and Moisture	6 mm/m (1/16"/ft)	6 mm/m (1/16"/ft)
Maximum Service Temperature	70°C (160°F)	70°C (160°F)
Flammability		
ASTM D-635 (Rate of Burn)	C2/CC2	C2/CC2
CAN/ULC-S102.2 (Flame Spread Classification)	< 150	< 150
DIN 4102 (Combustibility)	B2	B2
ASTM D-1929 (Self Ignition Temperature)	750°F	750°F
ASTM D-2843 (Smoke Density Rating)	3.8%	3.8%

Values are approximate.