

ACRYLITE® Multi-skin and Corrugated Sheet

ACRYLITE® Load Chart

lb/ft2	15	20	25	30	35	40	45	50	55	60
	Support Spacing required (in inches)									
CRYLITE® acrylic multi-skin sheet										
8 mm ACRYLITE° Resist high impact acrylic double-skin sheet	106	86	74	67	63	60				
16 mm ACRYLITE® Resist high impact acrylic double-skin sheet	not required	157	122	110	102	98	94	86	82	78
32 mm ACRYLITE® Resist high impact acrylic quad-skin sheet	not required	not required	224	165	145	130	122	114	106	10
16 mm ACRYLITE® Alltop high impact acrylic double-skin sheet	200	165	137	114	98	86	78	70	67	63
8 mm ACRYLITE® Heatstop high impact acrylic double-skin sheet	106	86	74	67	63	60				
16 mm ACRYLITE® Heatstop high impact acrylic double-skin sheet	not required	157	122	110	102	98	94	86	82	78
CRYLITE® acrylic wave profile										
3 mm ACRYLITE® Resist high impact acrylic wave profile	40	30	26	23	18	14				
3 mm ACRYLITE® Heatstop high impact acrylic wave profile	40	30	26	23	18	14				

 $Note: Maximum \ support \ spacing \ is \ measured \ in \ the \ direction \ parallel \ to \ the \ sheets \ ribs.$

EVONIK CYRO LLC

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ACRYLITE® Selection Chart

ACRYLITE® acrylic multi-skin sheet	ACRYLITE® Resist					
	8 mm ACRYLITE® Resist UV transmitting high impact acrylic double-skin sheet	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		
Light Transmittance (Clear)	84%	84%	clear - 86% clear diffused - 84%	76%		
Light Transmittance (Other Colors)	N/A	light white - 62%	light white - 62% bronze - 53% solar cool white - 37% enviro cool white - 10%	light white - 64%		
UV Blocking	no	yes	yes	yes		
Patented No Drip	yes	yes	yes	yes		
Anti-Algae	по	по	yes	по		
Energy Values						
R-Value	1.78°F/BTU•hr•ft²	1.78°F/BTU•hr•ft²	2.04°F/BTU•hr•ft²	3.57°F/BTU•hr•ft²		
U-Value	3.4 W/m²K (0.56 BTU/hr•ft²•°F)	3.4 W/m²K (0.56 BTU/hr+ft²+°F)	2.5 W/m²K (0.49 BTU/hr•ft²•°F)	1.6 W/m²K (0.49 BTU/hr•ft²•°F)		
New Product Warranty						
Light Transmission Warranty (Clear)	yes	yes	yes	yes		
No Yellowing Warranty	yes	yes	yes	yes		
Hail Warranty	yes	yes	yes	yes		
Geometry						
Thickness	8 mm (⁵ / ₁₆ ")	8 mm (⁵ / ₁₆ ")	16 mm (5/8")	32 mm (1 ½")		
Rib Spacing	16 mm (⁵ / ₈ ")	16 mm (5/8")	32 mm (1 ½")	32 mm (1 ½")		
Width	1200 mm (47 ½")	1200 mm (47 ½")	1200 mm (47 ½")	1230 mm (48 ⁷ / ₁₆ ")		
Length	up to 10973 mm (36 ft)	up to 10973 mm (36 ft)	up to 10973 mm (36 ft)	up to 7340 mm (24 ft)		
Approximate Area Weight	3.4 Kgm² (0.7 lb/ft²)	3.4 Kgm² (0.7 lb/ft²)	4.6 Kgm² (~1 lb/ft²)	6.4 Kgm² (1.3 lb/ft²)		
Weighted Sound Reduction Index	23 dB	23 dB	24 dB	24 dB		
Minimum Cold-Forming Radius	48"	48"	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)	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 (½,"/ft)	6 mm/m (½″/ft)	6 mm/m (½,6"/ft)	6 mm/m (½,6"/ft)		
Maximum Service Temperature	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		
CAN/ULC-S102.2 (Flame Spread Classification)	< 150	< 150	< 150	< 150		
DIN 4102 (Combustibility)	B2	B2	B2	B2		
ASTM D-1929 (Self Ignition Temperature)	830°F	830°F	830°F	830°F		
ASTM D-2843 (Smoke Density Rating)	8.1%	8.1%	7.0%	8.5%		

Values are approximate



ACRYLITE® Selection Chart

ACRYLITE® acrylic multi-skin sheet	ACRYLI ⁻	ΓE° Alltop	ACRYLITE® Heatstop			
	16 mm ACRYLITE° Alltop high impact acrylic double-skin sheet	16 mm ACRYLITE° Alltop UV transmitting high impact acrylic double-skin sheet	8 mm ACRYLITE° Heatstop high impact acrylic double-skin sheet	16 mm ACRYLITE° Heatstop high impact acrylic double-skin sheet		
Light Transmittance (Clear)	89%	89%	N/A	N/A		
Light Transmittance (Other Colors)	N/A	N/A	cool blue white - 28%	cool blue white - 28%		
UV Blocking	yes	no	yes	yes		
Patented No Drip	yes	yes	yes	yes		
Anti-Algae	по	по	no	yes		
Energy Values						
R-Value	2.04°F/BTU•hr•ft²	2.04°F/BTU•hr•ft²	1.78°F/BTU•hr•ft²	2.04°F/BTU•hr•ft²		
U-Value	2.5 W/m²K (0.49 BTU/hr•ft²•°F)	2.5 W/m²K (0.49 BTU/hr•ft²•°F)	3.4 W/m²K (0.56 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		
No Yellowing Warranty	yes	yes	yes	yes		
Hail Warranty	yes	yes	yes	yes		
Geometry						
Thickness	16 mm (⁵ / ₈ ")	16 mm (⁵ / ₈ ")	8 mm (⁵ / ₁₆ ")	16 mm (5/ ₈ ")		
Rib Spacing	64 mm (2 ½")	64 mm (2 ½")	16 mm (5/8")	32 mm (1 ½")		
Width	1200 mm (47 ½")	1200 mm (47 ½")	1200 mm (47 ½")	1200 mm (47 ½")		
Length	up to 8550 mm (28 ft)	up to 8550 mm (28 ft)	up to 10973 mm (36 ft)	up to 8550 mm (28 ft)		
Approximate Area Weight	4.9 Kgm² (1 lb/ft²)	4.9 Kgm² (1 lb/ft²)	3.4 Kgm² (0.7 lb/ft²)	4.6 Kgm² (~1 lb/ft²)		
Weighted Sound Reduction Index	22 dB	22 dB	23 dB	24 dB		
Minimum Cold-Forming Radius	not recommended	not recommended	48"	96"		
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)		
Expansion Due to Heat and Moisture	6 mm/m (½,6"/ft)	6 mm/m (½,″/ft)	6 mm/m (½"/ft)	6 mm/m (½,6"/ft)		
Maximum Service Temperature	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		
CAN/ULC-S102.2 (Flame Spread Classification)	< 150	< 150	< 150	< 150		
DIN 4102 (Combustibility)	B2	B2	B2	B2		
ASTM D-1929 (Self Ignition Temperature)	830°F	840°F	830°F	830°F		
ASTM D-2843 (Smoke Density Rating)	7.0%	2.0%	8.1%	7.0%		

Values are approximate



ACRYLITE® Selection Chart

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)	smooth & prismatic - 90%	N/A	
Light Transmittance (Other Colors)	white - 72% sunglass grey - 45% bronze prismatic - 55%	cool blue white - 22%	
UV Blocking	yes	yes	
Patented No Drip	по	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 4900 mm (16 ft)	up to 4900 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 (0.00005 in/in/°F)	0.08 mm/m °C (0.00005 in/in/°F)	
Expansion Due to Heat and Moisture	6 mm/m (½,"/ft)	6 mm/m (½,"/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

