

Multiple-Wall coextruded polycarbonate sheets

2 layers



thickness 4-4.5-6-8-10(mm)

3 layers



thickness 10-16-20(mm)

4 layers



thickness 8-10 (mm)

on request: U.V. protection on both sides

5 layers



thickness 16-20(mm)

on request: U.V. protection on both sides

7 layers



thickness 25-32(mm)

PRODUCTION STANDARDS

Thickness (mm)	4	4.5	6	8	10	10	16	20	8	10	16RDC	20RDC	25	32
Thickness (in)	5/32	3/16	1/4	5/16	3/8	3/8	5/8	11/16	5/16	3/8	5/8	11/16	1"	1 1/4
Structure	2 LAYERS				3 LAYERS				4 LAYERS		5 LAYERS		7 LAYERS	
Width (ft)	4 - 6													
Length (ft)	8 - 10 - 12 - 24													
Weight (lb/ft ²)	0.164	0.205	0.266	0.307	0.348	0.430	0.553	0.655	0.317	0.358	0.522	0.635	0.655	0.716
U-Factor (R=1/U)	0.68	0.68	0.61	0.58	0.52	0.47	0.40	0.38	0.50	0.44	0.36	0.33	0.26	0.24

Light transmission %

Clear	85	84	80	81	82	74	74	75	79	79	65	65	69	66
Bronze	57	57	51	65	65	41	37	35			30	30	35	35
Opal	58	58	57	57	57	52	52	52	50	50	40	40	42	42
Opal 30%			37	37	35	35	32	32					35	36
Reflecto						48	48				35		37	35
Blue			53	53	48		45							
Green			54	54	54		42							

Solar factor %

Clear	83	82	80	82	82	75	75	77	81	81	68	68	61	60
Bronze	66	66	66	70	75	57	57	57			50	50	50	50
Opal	66	66	66	65	64	62	63	63	51	51	45	45	50	54
Opal 30%			47	47	46	45	44	43					37	35
Reflecto						45	45				40		43	43
Blue			66	70	70		65							
Green			66	70	70		60							

Shading coefficient (SC)

Clear	0.95	0.94	0.91	0.94	0.94	0.86	0.86	0.88	0.93	0.93	0.78	0.78	0.61	0.69
Bronze	0.76	0.76	0.76	0.80	0.86	0.65	0.65	0.65			0.57	0.57	0.57	0.57
Opal	0.76	0.76	0.76	0.75	0.74	0.71	0.72	0.72	0.58	0.58	0.52	0.52	0.57	0.62
Opal 30%			0.54	0.54	0.53	0.52	0.50	0.49					0.42	0.40
Reflecto					0.52		0.52				0.46		0.59	0.49
Blue			0.76	0.80	0.80		0.74							
Green			0.76	0.80		0.80	0.69							

Thermal Expansion: Allow 1/8" per 3' per 100 °F temperature differential for both length and width for Clear and Opal panels, 1/4" per 4' for Bronze panels

Fire reaction: ASTM E84-01 (Flame Spread & Smoke Development): CLASS "A" for 6, 8, 10 & 16mm

It is recommended not to go under the bending radius of the following charts.

thickness (mm)	4.5	6	8	10	10-3P	16	16RDC	20	20RDC	25	32
thickness (in)	3/16	1/4	5/16	3/8	3/8	5/8	5/8	11/16	11/16	1"	1 1/4
Min. radius of curvature (in)	29.52	41.34	55.12	68.90	78.74	110.23	137.29	137.29	157.48	DO NOT BEND	

The external side of **PoliCarb®** is protected with a coextruded layer warranting resistance to aging due to atmospheric agents and U.V. rays.

SHEET COLD BENDING

PoliCarb® can easily be used to build integral arc structures since its' fluted construction increases the rigidity of the sheet allowing bending along the ribs.

