

# PoliCarb®

10 year Warranty

## Multiple-Wall coextruded polycarbonate sheets

<p>2 layers</p> <p>thickness 4-4.5-6-8-10(mm)</p>	<p>3 layers</p> <p>thickness 8-10-16-20(mm)</p>	<p>4 layers</p> <p>thickness 6-8-10 (mm)</p>	<p>5 layers</p> <p>thickness 16-20(mm)</p>	<p>7 layers</p> <p>thickness 25-32(mm)</p>
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PRODUCTION STANDARDS																
Thickness (mm)	4	4.5	6	8	10	8	10	16	20	6	8	10	16RDC	20RDC	25	32
Thickness (in)	5/32	3/16	1/4	5/16	3/8	5/16	3/8	5/8	25/32	1/4	5/16	3/8	5/8	25/32	1"	1 1/4"
Structure	2 LAYERS			3 LAYERS				4 LAYERS			5 LAYERS		7 LAYERS			
Width (ft)	4 - 6														47.25"	
Length (ft)	8 - 10 - 12 - 24															
Weight (lb/ft <sup>2</sup> )	0.164	0.205	0.266	0.307	0.348	0.348	0.430	0.553	0.655	0.286	0.317	0.358	0.522	0.635	0.655	0.716
U-Factor	0.68	0.68	0.61	0.58	0.52	0.48	0.47	0.40	0.38	0.53	0.48	0.44	0.36	0.33	0.26	0.24
Light transmission %																
Clear	85	84	80	81	82		74	74	75	79	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	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	72	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	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	0.78	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	0.58	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° 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 Developed): CLASS 'A' for 6, 8, 10, & 16mm															

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.

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

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	25/32	25/32	1"	1 1/4"
Min. radius of curvature (in)	29.52	41.34	55.12	68.90	78.74	110.23	137.79	137.79	157.48	DO NOT BEND	

