



POLYCARBONATE PERFORMANCE MATRIX

40442 KOPPERNICK RD.  
 CANTON, MI 48187  
 734-207-9700  
[www.duo-gard.com](http://www.duo-gard.com)

STANDARD WIDTHS  
 FLAT SHEET 6-16MM - 48", 72", 83", 25MM - 47.25", 72"  
 BATTEN 8MM - 23.78", 20MM 23.63"  
 TONGUE & GROOVE 10MM - 23.82", 20MM  
 STANDARD LENGTHS 24', 39' AVAILABLE AS A CUSTOM QUOTE

STANDARD SHEETS	TWIN-WALL			TRIPLE-WALL				X-WALL (HIGH LOAD)		BATTEN			TONGUE & GROOVE			
	2			3				5	7	4		6	3	6	7	4
NUMBER OF LAYERS	2			3				5	7	4		6	3	6	7	4
SHEET MM	6	8	10	10	16	20	25	16	25	8	12	20	10	20	40	40
THICKNESS INCH	1/4"	5/16"	3/8"	3/8"	5/8"	25/32"	1"	5/8"	1"	3/8"	5/8"	25/32"	3/8"	25/32"	1-9/16"	1-9/16"
WEIGHT	.266	.307	.308	.430	.553	.650	.665	.522	.655	.450		.655	.348		.717	.819
U-VALUE	.61	.58	.52	.47	.40	.38	.34	.26	.24	.48		.26	.48	.25	.19	.25
WITH NANOGEL		.39	.33		.23	.19	.18								.10	
R-VALUE	1.64	1.72	1.92	2.13	2.50	2.63	2.94	3.85	4.17	2.08		3.85	2.08	4	5.26	4
WITH NANOGEL		2.56	3.03		4.35	5.26	5.7								10	
MIN. BENDING RADIUS	41.34	55.12	68.9	78.74	110.23	137.79		137.79								
LIGHT TRANSMISSION																
(%) CLEAR	80	81	82	74	74	75	72	65	69	72		65	76	68	68	59
WITH NANOGEL		66	64		50	46									33	
(%) BRONZE	51	65	65	41	37	35	35	30	35	50		30			50	
(%) OPAL	57	57	57	52	52	52	35	40	42	47		40	65	47	45	50
SHADING COEFFICIENT (SC)																
CLEAR	0.91	0.94	0.94	0.86	0.86	0.86	0.75	0.78	0.61							
WITH NANOGEL		0.77	0.73		0.5	0.53										
BRONZE	0.76	0.8	0.86	0.65	0.65	0.65		0.57	0.57							
OPAL	0.76	0.75	0.74	0.71	0.72	0.72	0.58	0.52	0.62							

STANDARD COLORS  
 BRONZE  
 WHITE  
 CLEAR  
 BLUE\*  
 GREEN\*

