

Product Data - GL Multiwall Polycarbonate



PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	VALUE	TEST METHOD
Density	1.200 kg/m ³	ISO 1183
Water absorption	± 0.19 %	ASTM D570

OPTICAL PROPERTIES	VALUE	TEST METHOD
Light transmission	89%	ASTM D570
Refraction index	1.586	ISO 489

MECHANICAL PROPERTIES	VALUE	TEST METHOD
Resistance to tensile stress	66 MPa	ISO 527-2
Resistance to yield stress	60 MPa	ISO 527-2
Tensile modulus	2.300 MPa	ISO 527-2
Elongation at break	150 %	ISO 527-2
Izod impact	93 kJ/m ²	ISO 180/4A

THERMAL PROPERTIES	VALUE	TEST METHOD
Application temperature	-40 +120°C	
Linear thermal expansion	0,065 mm/m°C	EN 16153
Vicat (B/50)	146÷151 °C	ISO 306

A&C
PLASTICS, INC.

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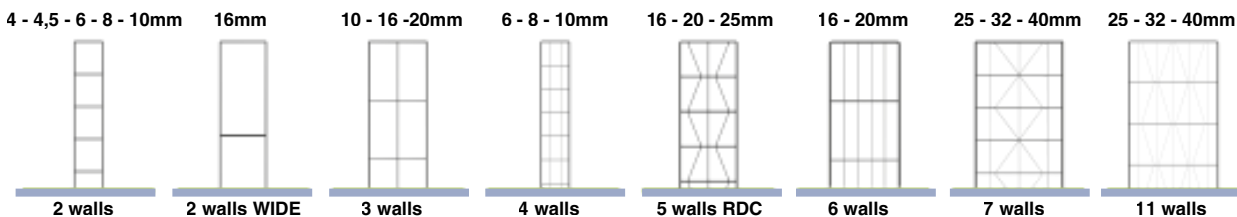
OPTICAL AND THERMAL PROPERTIES EN 16153

PROFILE	LIGHT TRANSMISSION (τ_v) %	SOLAR FACTOR (g) %	SHADING COEFFICIENT (SC)	THERMAL TRANSMITTANCE (U) W/m ² K
PoliCarb 2P-4mm				3.9
Crystal	80	79	0.91	
Bronze	63	75	0.86	
Opal	50	66	0.76	
PoliCarb 2P-4.5mm				3.9
Crystal	80	79	0.91	
Bronze	63	75	0.86	
Opal	50	66	0.76	
PoliCarb 2P-6mm				3.6
Crystal	82	81	0.93	
Bronze	60	72	0.83	
Opal	50	66	0.76	
PoliCarb 2P-8mm				3.3
Crystal	82	80	0.92	
Bronze	65	75	0.86	
Opal	50	65	0.75	
PoliCarb 2P-10mm				3.0
Crystal	81	80	0.92	
Bronze	65	75	0.86	
Opal	50	64	0.74	
PoliCarb 16mm WIDE				2.5
Crystal	85	83	0.95	
Bronze	65	70	0.80	
Opal	50	65	0.75	
PoliCarb 3P-10mm				2.7
Crystal	74	75	0.86	
Bronze	65	72	0.83	
Opal	52	62	0.71	
PoliCarb 3P-16mm				2.3
Crystal	74	76	0.87	
Bronze	40	55	0.63	
Opal	52	57	0.66	
Blue	45	70	0.80	
Green	60	70	0.80	
PoliCarb 3P-20mm				2.1
Crystal	74	75	0.86	
Bronze	40	55	0.63	
Opal	52	63	0.72	
PoliCarb 4P-6mm				3.1
Crystal	79	78	0.90	
Opal	45	53	0.61	
PoliCarb 4P-8mm				2.7
Crystal	79	78	0.90	
Opal	45	53	0.61	
PoliCarb 4P-10mm				2.5
Crystal	70	70	0.90	
Opal	45	53	0.61	
PoliCarb 5P-16mm RDC				2.1
Crystal	66	70	0.80	
Bronze	30	45	0.52	
Opal	40	55	0.63	
PoliCarb 5P-20mm RDC				1.8
Crystal	63	67	0.77	
Bronze	28	43	0.49	
Opal	40	49	0.57	
PoliCarb 5P-25mm RDC				1.6
Crystal	60	64	0.74	
Bronze	27	41	0.47	
Opal	40	45	0.52	
PoliCarb 6P-16mm				1.8
Crystal	60	62	0.71	
Opal	40	45	0.52	
PoliCarb 6P-20mm				1.6
Crystal	58	60	0.69	
Opal	38	43	0.49	
PoliCarb 7P-25mm				1.4
Crystal	58	62	0.71	
Opal	40	45	0.52	
Reflecto	40	40	0.46	
PoliCarb 7P-32mm				1.2
Crystal	57	61	0.70	
Opal	39	43	0.49	
Reflecto	35	37	0.43	
PoliCarb 7P-40mm				1.1
Crystal	55	59	0.68	
Opal	35	39	0.45	
Reflecto	33	35	0.40	
PoliCarb 11W-25mm				1.3
Crystal	45	52	0.60	
Opal	33	44	0.50	
PoliCarb 11W-32mm				1.1
Crystal	44	51	0.59	
Opal	29	38	0.44	
PoliCarb 11W-40mm				1.0
Crystal	43	50	0.57	
Opal	25	34	0.39	

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PRODUCTION STANDARDS



	structure walls	thickness mm	weight kg/mq	U value W/m ² K	width mm	length mm
2 WALLS						
PoliCarb®2P- 4mm	2	4	0,80	3,90	2.100	6.000
PoliCarb®2P-4,5mm	2	4,5	1,00	3,90	2.100	6.000
PoliCarb®2P- 6mm	2	6	1,30	3,60	2.100	6.000
PoliCarb®2P-8mm	2	8	1,50	3,30	2.100	6.000
PoliCarb®2P-10mm	2	10	1,70	3,00	980-1.250-2.100	6.000
PoliCarb®16mm WIDE	2	16	3,70	2,50	980-1.250	6.000
3 WALLS						
PoliCarb®3P-10mm	3	10	2,10	2,70	980-1.250-2.100	6.000
PoliCarb®3P-16mm	3	16	2,70	2,30	980-1.250-2.100	6.000
PoliCarb®3P-20mm	3	20	3,20	2,10	980-1.250-2.100	6.000
4 WALLS						
PoliCarb®4P- 6mm	4	6	1,40	3,10	2.100	6.000
PoliCarb®4P-8mm	4	8	1,55	2,70	2.100	6.000
PoliCarb®4P-10mm	4	10	1,75	2,50	2.100	6.000
5 WALLS						
PoliCarb®5P-16mmRDC	5	16	2,55	2,10	980-1.250-2.100	6.000
PoliCarb®5P-20mmRDC	5	20	3,10	1,80	980-1.250-2.100	6.000
PoliCarb®5P-25mmRDC	5	25	3,30	1,60	980-1.250-2.100	6.000
6 WALLS						
PoliCarb®6W-16mm	6	16	2,80	1,80	980-2.100	6.000
PoliCarb®6W-20mm	6	20	3,10	1,60	980-2.100	6.000
7 WALLS						
PoliCarb®7 W-25mm	7	25	3,50	1,40	1.250	6.000
PoliCarb®7 W- 32mm	7	32	3,70	1,20	1.250	6.000
PoliCarb®7W-40mm	7	40	3,90	1,10	1.250	6.000
11 PARETI						
PoliCarb® 11W-25mm	11	25	3,40	1,30	2.100	6.000
PoliCarb® 11W-32mm	11	32	3,70	1,10	2.100	6.000
PoliCarb® 11W-40mm	11	40	4,20	1,00	2.100	6.000

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LOAD RESISTANCE (daN/m²) FIXED PLANE SHEET ON 4 SIDES

PoliCarb® 2P-6mm					
Lenght (m)	Width (m)				
	0.70	0.60	0.50	0.40	
1.00	50	80	105	120	
1.50	45	75	105	110	
2.00	40	70	100	110	
2.50	35	65	90	100	
3.00	35	65	90	100	

PoliCarb® 4P-10mm					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.70	0.50
1.00	60	70	85	100	190
1.50	40	65	75	95	185
2.00	30	60	70	80	180
2.50	25	60	65	75	170
3.00	25	55	60	75	175

PoliCarb® 3P-16mm					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.80	0.60
1.00	105	135	150	175	230
1.50	70	125	140	150	220
2.00	70	120	135	140	150
2.50	70	110	110	135	145
3.00	60	90	100	130	140

PoliCarb® 5P-20mm RDC					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.80	0.60
1.00	140	155	180	230	280
1.50	120	140	170	200	255
2.00	100	130	140	160	205
2.50	80	120	130	140	165
3.00	80	100	100	130	160

PoliCarb® 6W-16mm					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.80	0.60
1.00	170	190	210	240	270
1.50	130	180	200	220	250
2.00	105	125	130	150	190
2.50	75	110	125	130	155
3.00	75	90	100	110	150

PoliCarb® 7W-25mm					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.80	0.60
1.50	180	240	315	385	390
2.00	170	200	240	280	275
2.50	145	170	195	215	240
3.00	140	165	190	210	235

PoliCarb® 7W-40mm					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.80	0.60
1.50	240	255	330	400	450
2.00	180	215	265	315	355
2.50	155	190	230	265	280
3.00	150	185	215	245	255

PoliCarb® 11W-32mm					
Lenght (m)	Width (m)				
	1.20	1.10	1.00	0.90	
1.50	150	185	200	225	
2.00	120	140	150	175	
2.50	100	115	120	145	
3.00	95	100	110	135	

PoliCarb® 2P-10mm					
Lenght (m)	Width (m)				
	1.20	1.00	0.80	0.70	0.50
1.00	70	80	100	110	170
1.50	50	75	90	100	165
2.00	40	70	85	90	165
2.50	30	70	75	85	160
3.00	30	65	70	80	140

PoliCarb® 2P-16mm WIDE					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.80	0.60
1.00	175	205	220	240	275
1.50	130	185	205	220	265
2.00	110	130	145	155	200
2.50	75	110	110	120	160
3.00	75	95	95	110	155

PoliCarb® 5P-16mm RDC					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.80	0.60
1.00	120	140	160	200	250
1.50	100	130	150	190	230
2.00	90	120	130	140	180
2.50	70	100	100	110	145
3.00	70	85	85	100	140

PoliCarb® 5P-25mm RDC					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.80	0.60
1.00	200	220	285	350	350
1.50	180	210	275	340	350
2.00	130	170	175	180	210
2.50	100	140	145	150	165
3.00	90	130	135	140	160

PoliCarb® 6W-20mm					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.80	0.60
1.00	190	210	230	270	300
1.50	160	200	220	240	290
2.00	120	150	150	170	205
2.50	90	130	140	145	165
3.00	80	110	110	135	160

PoliCarb® 7W-32mm					
Lenght (m)	Width (m)				
	1.20	1.00	0.90	0.80	0.60
1.50	220	250	325	395	430
2.00	170	210	260	305	330
2.50	145	190	225	255	270
3.00	140	180	210	235	250

PoliCarb® 11W-25mm					
Lenght (m)	Width (m)				
	1.20	1.10	1.00	0.90	
1.50	145	180	195	210	
2.00	105	120	130	150	
2.50	75	85	95	110	
3.00	70	75	80	100	

PoliCarb® 11W-40mm					
Lenght (m)	Width (m)				
	1.20	1.10	1.00		
1.50	175	190	205		
2.00	140	155	175		
2.50	110	140	160		
3.00	100	135	155		

MINIMUM RADIUS OF CURVATURE

Sheets th.	4,5-2P	6-2P	8-2P	10-2P	10-4P	16-3P	16-RDC	16-6W	20-RDC	20-6W	25/32/40-7W	25/32/40-11W
RADIUS (mm)	750	1.000	1.500	1.750	2.000	2.800	3.500	2.800	4.000	3.400	DO NOT BEND	

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