



The Plastics Sheets Specialist

Multi-Walled PC Sheet

Multi-Walled

Optima+ multi-walled polycarbonate sheets offer a variety of structures and colours. These sheet products provide an outstanding balance of lightweight, high stiffness, ease of installation, excellent thermal insulation, UV and flame resistance, as well as good light transmission. Multi walled sheets give an attractive solution for industrial, commercial and residential glazing applications, as they are lightweight to be transport and facilitate easy and fast installation.

Typical Property Values

Property	Item	Test Method	Metric	Imperial
Physical	Density	ISO 1183	1.20g/cc	0.0434 lb/in ³
	Water Absorption	ISO 62 In water 23°C, 24 hrs	0.20%	0.20%
	Linear Mold Shrinkage	-	0.005-0.007 cm/cm @thickness 4.0mm	0.005-0.007 in/in @thickness 0.157in
	Linear Mold Shrinkage (Transverse)	-	0.005-0.007 cm/cm @thickness 4.0mm	0.005-0.007 in/in @thickness 0.157in
	Melt Flow	ISO 1133	14g/10min @Load 83.80kg Temp 230°C	14g/10min @Load 8.38lb Temperature 446°F
	Tensile Strength, Yield	ISO 527 (50mm/min)	62 MPa	8990 psi
	Elongation at Break	ISO 527 (50mm/min)	>=50%	>=50%
	Elongation at Yield	ISO 527 (50mm/min)	6.00%	6.00%
	Tensile Modulus	ISO 527 (1mm/min)	2.40 GPa	348 ksi
	Flexural Strength	ISO 178 (2mm/min)	93.0 MPa	13500 psi
	Flexural Modulus	ISO 178 (2mm/min)	2.35 Gpa	341 ksi
	Charpy Impact Unnotched	ISO 179	N/B	N/B
	Charpy Impact Notched	ISO 179	7.60 J/cm ²	36.2 ft-lb/in ²
Optical	Refraction Index	ASTM D542	1.585	1.585
	Transmission, Visible	ASTM D1003	88% @thickness 3.0mm	88% @thickness 0.118in

Remarks

- The data presented above represents values from our testing of the material. It is the responsibility of the user to test and confirm our materials are suitable for their intended applications. All information and technical assistance is given without warranty or guarantee and is subject to change without notice.
- Unless otherwise agreed to in writing, all products are sold strictly pursuant to our standard conditions of sale.
- Please contact your Optima+ sales representative for any questions or enquiries regarding special applications.

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