

Product data sheet, July 2013

Makrolon® multi UV 2/4-6

Multiwall polycarbonate sheet



Your benefits:

- high impact strength
- lightweight
- cold-bendable

Makrolon® multi UV 2/4-6 is a twinwall polycarbonate sheet of 4 mm thickness. The sheet is lightweight, impact resistant and easy to install.

Applications:

Makrolon® multi UV 2/4-6 is used as an advertising display, partition and load-free panel. For load bearing structures (exposed to wind or snow loads), installed flat or as barrel vaults, it is advised to use sheets of greater thickness.

UV-protection

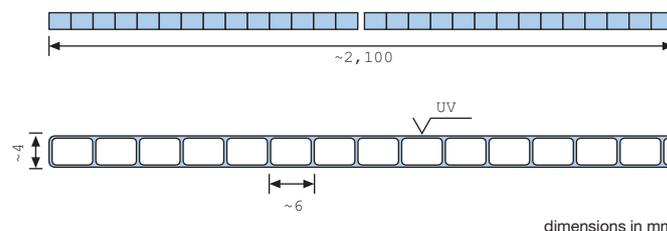
The sheets are produced with a coextruded UV-protective layer, which is homogeneously fused with the sheet material. This UV-protected side must be installed facing upwards/outwards.

TECHNICAL DATA (TYPICAL VALUES)

Area weight	0.8 kg/m ²	
Sheet width	2,100 mm	
Possible delivery lengths	2,000 to 12,000 mm	
Minimum permissible cold-bending radius ⁽¹⁾	700 mm	
Light transmittance τ_{D65} (UV-absorbing)	clear 1099: white 1146: white 1125:	ca. 79 % ca. 77 % ca. 28 %
Coefficient of thermal expansion α	0.065 mm/m °C	
Possible expansion due to heat and moisture	3 mm/m	
Max. service temperature without load	120°C	
Fire rating ⁽²⁾	clear 1099 clear 1099 white 1125	M1 (NF P 92501/505) B2 (DIN 4102)

⁽¹⁾ The cold-bending must be parallel to the ribs of the sheets, never crosswise (risk of buckling).

⁽²⁾ Fire certificates are limited in time and scope, always check if the mentioned certificate is valid for the purchased Polycarbonate sheet type at the date of delivery. Polycarbonate sheets may change their fire behavior due to ageing and weathering. The indicated fire rating was tested on new / unweathered Product in accordance with the indicated fire classification standards, except for Product rated "B1" in accordance with DIN 4102.



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Bayer MaterialScience S-Line, the standard product line, represents a range of certified quality products which offer the reliable solution for most applications.

Bayer MaterialScience also produces solid sheets in polycarbonate (Makrolon® GP) and in polyester (Vivak® and Axpet®). For more information, take a look at www.bayersheeteurope.com.



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