

## Makrolon® Multiwall Polycarbonate Sheet

### Data Sheet

Polycarbonate sheets are produced with a coextruded UV protective layer (both sides), which is homogeneously fused with the polycarbonate sheet material.

### Physical Properties

Sheet dimensions	Width: 1050mm Thickness: 10mm Distance between ribs: 11mm
Area Weight	1.7kg/m <sup>2</sup> ±3%
Standard Lengths	2.0m, 2.5m, 3.0m, 3.5m, 4.0m, 4.5m, 5.0m, 5.5m, 6.0m, 6.5m, 7.0m, 9.0m
Minimum cold bending radius	1750mm
Light transmission	Clear 76% Bronze Tint 46% Grey Tint 25% Platinum 20% Opal 6%
K value	3.4 W/m <sup>2</sup> °C
U value	3.1 W/m <sup>2</sup> °K
R value	0.32m <sup>2</sup> .C°/
Coefficient of heat expansion	0.065mm/m °C (2.1mm per 3m per 10°C)
Possible expansion due to heat & moisture	3mm/m
Min & Max permanent service temperature without load	-40°C~120°C

### Test Compliances

- **Design & Installation (1):** AS/NZS 1562.3:2006
- **Early Fire Hazard Test:** AS/NZS 1530.3:1999\*
- **Heat & Smoke Release Rates:** AS/NZS 3837:1998\*
- **99.9% UV Resistant:** ISO 9050:2003
- **SAA Loading Code Part 2 – Wind Loads:** AS/NZS 1170.2:2011
- **Resistance to Wind Pressures for Non-Cyclone Regions (2):** AS 4040.2:1992

(1) Installation must comply with the Building Code of Australia. Local council approval may be required. Standard installation instructions apply.

(2) Special High Wind installation instructions apply

### Light & Heat Transmission Data

	Clear	Bronze Tint	Grey Tint	Platinum	Opal
<b>Shading Co-efficient</b>	0.88	0.78	0.64	0.42	0.31
<b>Heat Transmission</b>	73%	62%	42%	18%	9%
<b>Light Transmission</b>	76%	46%	25%	20%	6%
<b>Solar Heat Gain</b>	0.76	0.68	0.55	0.36	0.27