

Everbright E610 polycarbonate light panels

Summary of Results

Density	1200kg/m ³
Pull Resistance	63N/mm ²
Extension at break	105%
Modulus of elasticity	2400N/mm ²
Impact strength (- 40°C)	No failure
Notched impact strength (23°C)	No failure
Description	Triple skinned tube extrusion. Co-extruded with 0.05mm thick ultra violet filter.
Size	74mm deep, 100mm wide
Sound absorption	27 db approximately
Light transmission visible light	Clear = 73% Opal = 65% Light blue = 59%
Light transmission ultra violet	Negligible
Thermal insulation	1.85W/m ² K (R value 0.54)
Fire	AS 1530.3
Photo synthetic active radiation PAR reading	Wave length 400 – 700nm ($\mu\text{mol s}^{-1} \text{m}^{-2}$)
Solar gain Theoretical evaluations for clear E610 on 21 St June, Midday	North panels = 470W/m ² East panels = 551W/m ² South panels = 700W/m ² West panels = 550W/m ²
Radius of a curve	Since E610 polycarbonate panels are extruded as a flat tube, dramatic radiuses can be achieved.