BAY PLASTICS

DATASHEET

MULTIWALL POLYCARBONATE

Multiwall polycarbonate allows combinations of different colours in one sheet and adds a multi-layer technological edge to the already wide range of products. Multiwall polycarbonate products provide the benefits of solar energy treatment, delivering cool, natural light without sacrificing the interior. Multiwall polycarbonate adds new attractive dimension to any conservatory, and may also appeal to architects, who would appreciate this creative element when designing structures.

Applications

- Architectural Building Cladding, Roofing & Glazing
- Skylights & Sidelights
- Conservatory Roofing
- Covered Walkways
- Sunrooms, Patio & Pergola Roofing
- Illuminated Signage & Backdrops
- Decorative Partitions
- Greenhouse Panels

Benefits

- High thermal insulation
- Lighter weight than solid panels
- Excellent rigidity and impact resistance
- Available with a variety of colour and light transmission options
- Superior structural ability
- Weather & UV resistant
- Blocks virtually all UV radiation
- Easy to handle and install
- High performance fire rating

Typical Properties

General Properties	Conditions	Units	Value
Density (D-792)		g/cm3	1.2
Heat Deflection Temperature (D-648)	Load 1.82 MP	°C	130
Short Term Service Temperature Range		°C	-50 to +120
Long Term Service Temperature Range		°C	-50 to +100
Coefficient of Linear Thermal Expansion (D-696)		10(-5)/°C	6.5
Tensile Strength at Yield (D-638)	10mm/min	MPa	62
Elongation at Break (D-638)	10mm/min	%	>80
Impact Falling Dart (ISO 6603/1)		J	40 – 400
Thermal Expansion / Contraction Range		Mm/m	3

Flammability

Method	Classification
BS 476/7	Class 1
DIN 4102	B-1
NSP 92501	M-1, M-2
ASTM D-635	CC-1
ASTM E-84	Class A