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PALRAM INDUSTRIES (1990) LTD.

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Thermoplastic Sheets for Construction, Industry, Advertising and Agriculture

PALSUN - DATA SHEET

Flat Solid Polycarbonate Sheet

Definition

PALSUN - Co-extruded UV protection on one side

Thickness

1 to 12 mm

Flammability

Standard	Classification
BS 476/7	Class 1Y
NSP 92501, 4	M1, M2
DIN 4102	B1, B2
CSE RF 2/75/A CSE RF 3/77	Class 1
UL Classified	File e221255
ASTM D635	CC1

All the above depends on thickness. For additional information please contact PALRAM.

Typical Properties:

Property	Standard	Conditions	Unit	Value
Density	ASTM D792	-	g/cm ³	1.2
Heat Deflection Temperature	ASTM D648	1.82 MPa	°C	130
Service Temperature (short term)	-	-	°C	-50 to 120
Service Temperature (long term)	-	-	°C	-50 to 100
Coefficient of Linear Thermal Expansion	ASTM D696	-	cm/cm °C	6.5 X 10 ⁻⁵
Thermal Conductivity	ASTM C177	-	W/mK	0.21
Tensile Strength at Yield	ASTM D638	10 mm/min	MPa	65
Tensile Strength at Break	ASTM D638	10 mm/min	MPa	60
Elongation at Yield	ASTM D638	10 mm/min	%	6
Elongation at Break	ASTM D638	10 mm/min	%	>90
Tensile Modulus of Elasticity	ASTM D638	10 mm/min	MPa	2000
Flexural Strength	ASTM D790	1.3 mm/min	MPa	100
Flexural Modulus	ASTM D790	1.3 mm/min	MPa	2600
Impact Falling Weight (E-50)	ISO 6603/1	3mm sheet	J	158
Rockwell Hardness	ASTM D785		R Scale	125R
Light Transmission	ASTM D1003	3mm sheet	%	89
Haze	ASTM D1003	3mm sheet	%	<0.5
Yellowness Index	ASTM D1925	3mm sheet		<1

Updated January 2005