

Data Sheet - PALGARD

Flat Polycarbonate Abrasion Resistant Sheet



Product Definition

PALGARD – flat polycarbonate abrasion resistant sheet

Thickness Range

2 to 10 mm

Flammability

Standard	Classification
EN 13501	B, s1, d0

**All the above depends on thickness.*

For additional information please contact PALRAM.

Typical Physical 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 Range			°C	-40 to 120
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	1 mm/min	MPa	2300
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 (3mm)	ASTM D1003	3mm sheet	%	46
Haze	ASTM D1003	3mm sheet	%	100
Yellowness Index	ASTM D1925	3mm sheet		<1
Taber abrasion CS-10F	ISO 9352	100 cycle 500 g	%Haze	<1.5
Adhesive properties 0.5/1.0/2.0 h boiling period at 100OC	ISO 2409			GT 0/0/0
Climatic resistance	ISO 4892			No visible changes

* The information applies to the coated surface