PALRAM

Data Sheet - PALSUN®

Flat Solid Polycarbonate Sheet

Product Definition

PALSUN® One-side UV protected solid polycarbonate sheet.

Thickness Range

1.0mm to 10.0mm

Typical Physical Properties

Property	Standard	Conditions	Unit	Value				
Density	ASTM D792		g/cm^3	1.2				
Heat Deflection Temperature	ASTM D648	1.82 MPa	^OC	130				
Service Temperature Range			^OC	-40 to 120				
Coefficient of Linear Thermal Expansion	ASTM D696		cm/cm ^OC	6.5×10^{-5}				
Thermal Conductivity	ASTM C177		W/mK	0.21				
Impact Falling Weight (E50)	ISO 6603/1	3mm sheet	J	130				
Rockwell Hardness	ASTM D785		R Scale	80				
				Sheet Thickness				
				1mm	3mm	6mm	8mm	10mm
Tensile Strength at Yield	ASTM D638	10 mm/min	MPa	70	65	65	65	65
Tensile Strength at Break	ASTM D638	10 mm/min	MPa	70	60	50	50	50
Elongation at Yield	ASTM D638	10 mm/min	%	5	5.5	5.5	6	6.5
Elongation at Break	ASTM D638	10 mm/min	%	80	80	50	50	50
Tensile Modulus of Elasticity	ASTM D638	1 mm/min	MPa	2700	2300	2000	1950	1800
Flexural Strength	ASTM D790	1.3 mm/min	MPa	130	95	90	85	85
Flexural Modulus	ASTM D790	1.3 mm/min	MPa	2700	2300	2300	2300	2300
Impact Falling Weight	ISO 6603/1	E50	J	55	130		>300J	

Updated: 4.2026

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