November 2005

DATABLAD PC (Polycarbonat)

PALSUN - Typical Physical Properties

Property	(Method[a])	Conditions	Units	Value
Density	(D-792)		g/cm³	1.2
Heat Deflection Temperature	(D-648)	Load: 1.82 MP	°C	130
Service Temperature Range			°C	-40 to +120
Coefficient of Linear Thermal Expansion	(D-696)		cm/cm °C	6.5×10^{-5}
Thermal Conductivity	(C-177)		W/m K	0.21
Tensile Strength at Yield	(D-638)	10 mm/min	MPa	65
Tensile Strength at Break	(D-638)	10 mm/min	MPa	60
Elongation at Yield	(D-638)	10 mm/min	%	6
Elongation at Break	(D-638)	10 mm/min	%	>90
Tensile Modulus of Elasticity	(D-638)	10 mm/min	MPa	2,000
Flexural Strength	(D-790)	1.3 mm/min	MPa	100
Flexural Modulus	(D-790)	1.3 mm/min	MPa	2,600
Impact Falling Weight	(ISO 6603/1 E_{50})	3mm sheet	J	158
Rockwell Hardness	(D-785)		R Scale	125R
Light Transmission	(D-1003)	3mm clear sheet	%	89%
Haze	(D-1003)	3mm clear sheet	%	<0.5
Yellowness Index	(D-1003)	3mm clear sheet		<1

[a] *ASTM except where noted otherwise.*

Flammability

PALSUN	
Standard	**Classification[b]**
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	V2 (File e221255)
ASTM D-635	CC1

PALSUN FR		
Standard	**Classification[b]**	
UL Classified	V0 (File e221255)	
ASTM D-2863-87	L.O.I. = 30	
AU 1530.3-1982	Ignitability Index	= 9
	Spread of Flame Index	= 8
	Heat Evolved Index	= 10
	Smoke Developed Index	= 8

[b] *All the above depends on thickness. For additional information please contact your PALSUN distributor.*

Installation

Installation instructions can be supplied upon request. The polyethylene protective film must be removed from both sides **immediately** after installation.

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