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Technical Data Sheet

▸ polycarbonate guard

Property	(Method[a])	Conditions	Units	Value
Density	(D-792)		g/cm^3	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 x 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.*

▸ aluminium rings

LM6 Aluminium Casting Alloy

LM6 Aluminium Casting Alloy (Al – Sil2)

1

This alloy conforms to British Standards 1490 LM6

CHEMICAL COMPOSITION	%
Copper	0.1 max.
Magnesium	0.10 max.
Silicon	10.0-13.0
Iron	0.6 max.
Manganese	0.5 max.
Nickel	0.1 max.
Zinc	0.1 max.
Lead	0.1 max.
Tin	0.05 max.
Titanium	0.2 max.
Aluminium	Remainder

MECHANICAL PROPERTIES	**SAND CAST**	**CHILL CAST**
0.2% Proof Stress (N/mm2)*	60-70	70-80
Tensile Stress (N/mm2) *	**160**-190	**190**-230
Elongation (%)*	**5-**10	**7**-15
Impact Resistance. Izod (Nm)	6.0	9.0
Brinell Hardness Number	50-55	55-60
Endurance Limit (5 X 107 cycles; ± N/mm2)	51	68
Modulus Of Elasticity (X 103 N/mm2)	71	71
Shear Strength N/mm2)	120	

* The values shown are typical ranges for sand and chill cast test bars produced to the requirements of B.S. 1490 and for 6 mm diameter die cast bars; those in heavier type are minimum specification values.

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▶ pvc single sided foam tape

Scapa 3507

DESCRIPTION

Scapa 3507 is primarily a foam compression sealant. The product is grey. The foam is predominantly closed celled and is a hard foam . An acrylic pressure sensitive adhesive is coated on one side, and the product has a paper release liner on the other non-adhesive face.
Scapa 3507 will act as a water-seal and air/dust seal when compressed.

APPLICATIONS

- Forms a compression water seal
- For preventing electrolytic corrosion
- For heavy duty cushioning
- For high load bearing applications
- Forms a compression air / dust seal
- For gap filling
- For anti slip mounting

PRODUCT BENEFITS

- Minimum 30% compression required to effect a water seal
- Service temperature –30 °C to +70 °C
- Application temperature: +10 °C to + 40 °C
- Shelf life of 1 year
- Coated on one side with a high quality pressure sensitive acrylic adhesive
- Good resistance to dilute acids & alkalis
- Paper release liner on the non-adhesive face, reducing dimensional change during application
- Very good Ultra violet {UV} Light resistant
- Resistance to abrasion, corrosion and moisture
- Suitable for indoor and outdoor environments
- No known hazards associated with this product
- Pre-determined dimensional sealant reduces waste
- Clean to use
- Clean edge finish

TECHNICAL PROPERTIES

	Unit	Nominal Value	Test Method
Shore Hardness {OO} Scale	"00"	50	Scapa F16
Force To Compress By 30 %	Ncm^{-2}	6.3	Scapa F4
Compression Deflection After 1 Minute	Ncm^{-2}	5.3	Scapa F4
10 Minute180 ° Peel Adhesion	N/25mm	5	Scapa F9
Tensile Strength	Ncm^{-2}	88	Scapa F17
Elongation At Break	%	>140	Scapa F17
Thermal Conductivity (k)	$Wm^{-1}K^{-1}$	0.043	Lee's Disc

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▸ melinex polyester film

Melinex® 401 is a sparkling clear film with good handling qualities. The film, specially treated to give a slippery surface on one side, is suitable for applications where very high transparency is important. Melinex® 401 is supplied in knurled reel form and is currently available at 50, 75, 100, 125 micron.

TYPICAL VALUES OF PROPERTIES

Property	Test Method	Unit	Value
General			**Thickness µm**
Area Yield		m²/kg	**50** **75** **100**
			14.4 9.6 7.2
Relative Density	ASTM D 1505-79 (modified to Melinex test methold)		1.4
Mechanical			MD* TD**
Tensile strength at break	ASTM D 882-83 (23ºC at 50% rh strain rate 50%min)	kgf/mm²	19 28
Elongation at break	As above	%	155 85
Slip (coefficient of static friction)	ASTM D 1894-78 (modified to Melinex test methold)		<1.0
F5		kgf/mm²	11 11
Optical			
Haze	ASTM D 1003-78 (measured on Gardner Hazemeter)		<0.6 <1 <1
Thermal			
Upper melt temperature	ASTM E794-85	ºC	255 - 260