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WHEN YOU NEED TO TALK...SAFELY



IMAGE SHOWN IS MELAPHONE HIMACS (ACRYLIC/RESIN COMPOSITE) WITH POLYCARBONATE GUARD OVERALL DIAMETER 245MM DIA MELAPHONE PART REF 3001 GTIN REF 5060830140005 OR 50608301400052

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Technical Data Sheet

polycarbonate guard				flammability				
Property	(Shedter)	Conditions	Units	Value	PALSUN			
Property	(Method ^a)	Conditions	Units Value	Standard		Classificatio	n ^b	
Density	(D-792)		g/cm ³	1.2	BS 476/7		Class 1Y	
Heat Deflection Temperature	(D-648)	Load: 1.82 MP	°C	130	NSP 92501, 4		M1, M2	
Service Temperature Range			°C	-40 to +120	DIN 4102		B1, B2	
Coefficient of Linear Thermal E	xpansion (D-696)		cm/cm °C	6.5 x 10 ⁵	CSE RF 2/75/A, C	SE RF 3/77	Class 1	
Thermal Conductivity	(C-177)		W/m K	0.21	UL Classified		V2 (File e22	1255)
Tensile Strength at Yield	(D-638)	10 mm/min	MPa	65	ASTM D-635		CC1	
Tensile Strength at Break	(D-638)	10 mm/min	MPa	60	PALSUN FR			
Elongation at Yield	(D-638)	10 mm/min	%	6				
Elongation at Break	(D-638)	10 mm/min	%	>90	Standard			
Tensile Modulus of Elasticity	(D-638)	10 mm/min	MPa	2,000	UL Classified	V0 (File e	221255)	
Flexural Strength	(D-790)	1.3 mm/min	MPa	100	ASTM D-2863-87	L.O.I. = 3	0	
Flexural Modulus	(D-790)	1.3 mm/min	MPa	2,600	AU 1530.3-1982	Ignitabilit	y Index	= 9
Impact Falling Weight	(ISO 6603/1 <u></u> 50)	3mm sheet	J	158		Spread of	Flame Index	= 8
Rockwell Hardness	(D-785)		R Scale	125R		Heat Evol	ved Index	= 10
Light Transmission	(D-1003)	3mm clear sheet	%	89%		Smoke De	eveloped Index	(= 8
Haze	(D-1003)	3mm clear sheet	%	<0.5			•	
Yellowness Index	(D-1003)	3mm clear sheet		<1	^b All the above depends on thickness. For addit			

thickness. For additional information please contact your PALSUN distributor.

^a ASTM except where noted otherwise.

aluminium rings

LM6 Aluminium Casting Alloy

LM6 Aluminium Casting Alloy (Al – Sil2)

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/mm ^{2)*}	60-70	70-80
Tensile Stress (N/mm ²⁾ *	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;	51	68
<u>+</u> N/mm2)		
Modulus Of Elasticity (X 103 N/mm ²)	71	71
Shear Strength N/mm ²)	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

DESCRIPTION

Scapa 3507

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

PRODUCT BENEFITS

- Minimum 30% compression required to e ect a water seal
- Service temperature -30 °Cto +70 °C
- Application temperature: +10 °Cto + 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 nish

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 De ection 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
Bongation At Break	%	>140	Scapa F17
Thermal Conductivity (k)	Wm ⁻¹ K ⁻¹	0.043	Lee's Disc

- Forms a compression air / dust seal
- For gap Iling
- For anti slip mounting



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

Test Method	Unit	Value
	m²/kg	Thickness μm 50 75 100 14.4 9.6 7.2
ASTM D 1505-79 (modified to Melinex test methold)		1.4
		MD* TD**
ASTM D 882-83 (23°C at 50% rh strain rate 50% min)	kgf/mm²	19 28
As above	%	155 85
ASTM D 1894-78 (modified to Melinex test methold)		<1.0
	kgf/mm²	11 11
ASTM D 1003-78 (measured on Gardner Hazemeter)		<0.6 <1 <1
ASTM E794-85	°C	255 - 260
	ASTM D 1505-79 (modified to Melinex test methold) ASTM D 882-83 (23°C at 50% rh strain rate 50% min) As above ASTM D 1894-78 (modified to Melinex test methold) ASTM D 1003-78 (measured on Gardner Hazemeter)	ASTM D 1505-79 m²/kg (modified to Melinex test methold) kgf/mm² ASTM D 882-83 kgf/mm² (23°C at 50% rh strain rate 50% min) % As above % ASTM D 1894-78 kgf/mm² (modified to Melinex test methold) kgf/mm² ASTM D 1003-78 (measured on Gardner Hazemeter)

Advanced Materials

Araldite[®] 2011

Structural Adhesives

Araldite[®] 2011

	Two component epoxy adhesive
Key properties	Multi purpose
	Long working life
	Low shrinkage
	Good resistance to dynamic loading
	Bonds a wide variety of materials in common use
Description	Araldite [®] 2011 is a multipurpose, two component, room temperature curing adhesive of high strength and toughness. It is suitable for bonding a wide variety of metals, ceramics, glass, rubber, rigid plastics and most other materials in common use. It is a versatile adhesive for the craftsman as well as most industrial applications.