

Plastic Shim



INFORMATION / SPECIFICATION SHEET

POLYESTER

Short fibre polyester mat laminated to a polyester film, biaxially orientated and heat-set. Suitable for lamination and printing.

KEY BENEFITS:

- high tensile strength and tear resistance
- impact & abrasion resistant
- dimensionally stable
- resistant to elevated & reduced temperatures
- impermeable to aromas, gases and water vapour
- resistant to all commonly used organic solvents, oils and fats and to many inorganic substances
- resistant to fungal and bacterial attack
- excellent electrical insulation properties
- good UV resistance

PROPERTIES:

Properties	Value	Specification
<i>Physical</i>		
Penetration resistance	Good	
Moisture absorption	0.50%	DIN 53472; ASTM D570; Test: immersed in water 4 days @ 23°C
<i>Dimensional Stability</i>		
Shrinkage	2%	DIN 40634 or VDE 0345; Test Condition: 150°C for 15 mins.
Coefficient of moisture expansion	$0.7 \cdot 10^{-5} (\% \text{ r.h})^{-1}$	Test Condition: 40 - 80% r.h
<i>Thermal</i>		
Melting Point	260°C	Differential thermal analysis - 3 K/min
Flammability	No flammable gases appear up to 400°C	DIN 40634 or VDE 0345
Thermal Conductivity	0.13 units W/(m*K)	VDE 0304 part 1
Insulation class in electrical engineering	B	DIN 57530 or VDE 0530 main list
Low Temperature resistance	-196°C	DIN 53372 (tested to -196°C)
Operating Temperatures		
Continuous air High	121°C	
Continuous air Low	-40°C	

POLYPROPYLENE

KEY BENEFITS:

- lightweight
- working temperatures and tensile strength are superior to low or high density polyethylene
- good abrasion resistance
- USDA/FDA approved
- Impact resistant
- Machinable
- Low moisture absorption rate
- Stain resistant
- Poor UV resistance

PROPERTIES:

Properties	Value	Specification
<i>Physical</i>		
Penetration resistance	Medium	
Moisture absorption	0.01% - 0.03%	24 hour period / 1/8" thick material
Thickness range	0.38mm; 0.50mm; 0.64mm; 0.75mm; 1.00mm & 1.50mm	
Colour range	Red; Yellow; Grey; Clue; Black; Grey & White	
<i>Mechanical</i>		
Tensile Strength	5,000 psi	ASTM D638
Elongation (%)	10 - 20	ASTM D638
<i>Thermal</i>		
Melting Point	150°C	BS2782 102D Aristech
Flammability rating	HB	UL94
Coefficient of thermal expansion (10 ⁻⁵ in./in - °F)	3.2 - 5.7	ASTM D696
<i>Electrical</i>		
Resistivity - surface	10 ¹⁵ ohm at 73°F, 50% RH	ASTM D257; BS 2782 203A
Resistivity - volume	10 ¹⁶ ohm cm	BS 2782 202A
Electrical strength	2.2 - 2.6; 0.01% - 0.03%	ASTM D150
Arc resistance	160	ASTM D495

1404 ARTHUR PORTER DRIVE, BURBUSH, HAMILTON, NZ

PHONE: 0800 238837

EMAIL: SALES@BETTERINDUSTRIAL.CO.NZ WEB: WWW.BETTERINDUSTRIAL.CO.NZ