

Product description	The raised labels are thermal transfer printable plates, which replaces engraved plates. The marking is quicker, more effective and even more cost effective than conventional engraved plates and also offers durability and high adhesion strength. Raised labels are standard available in white and metalized, but can be offered in many other colours and dimensions upon request.
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Colours	2 - Silver & White
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PHYSICAL PROPERTIES

Product Data	Typical value	Unit	Test method
Thickness	625	Micron	ASTM D 3652
Dimension stability (%)	No shrinkage observed		On Alu panel at 70°C for 24hrs

TECHNICAL PROPERTIES - ADHESION STRENGTH

	Value	Test method
Polypropylene	11 N / 25mm	DIN EN 1939 after 24 hours at 21°C
Polyethylene	5 N / 25mm	DIN EN 1939 after 24 hours at 21°C
PVC	29 N / 25mm	DIN EN 1939 after 24 hours at 21°C
Steel	38 N / 25mm	DIN EN 1939 after 7 days at 38°C and 100% relative humidity
Shear strength	40 N / 625mm ²	On steel according to DIN EN 1943, edition 1996, at 23°C ± 2°C
Peel strength	40 N / 25mm	On steel according to DIN EN 1943, edition 1996, at 23°C ± 2°C

TECHNICAL PROPERTIES - FILM

	Value	Test method
Tensile strength	≥ 166,7 Mpa	ASTM D 882
	≥ 1700 Kg/cm ²	ASTM D 882
	≥ 24200 p.s.i.	ASTM D 882
Elongation	≥ 100%	ASTM D 882
	≥ 187,5 N/cm	ASTM D 882
	≥ 19,1 Kg/cm	ASTM D 882
	≥ 107,0 p.i.w.	ASTM D 882
Electric breakdown	13,5 kV	
Volume resistivity	10 ¹⁶ Ohm cm	ASTM D 258
Coefficient of friction	0,35	ASTM D 1894
Shear resistance	>1500´minutes	FTM 8
Chemical resistance	Good (4 - grey scales)	AATCC 8

Expected exterior life	2 years
Min. application temperature	4°C
Storage ability	2 years stored at 21°C and 50% relative humidity
Operating temperature	-40°C to +90°C
Recommended application temp.	+18°C to +35°C

Liner material	- White double sided siliconized paper, thickness 80μ
Carrier material	- Black polyethylene foam, thickness 450μ
	- Excellent resistance to ageing, weathering and UV-radiation
	- Extensive resistance to the influence of chemicals and solvents (domestic cleaners and polishing agents)
	- On account of its compressible and elastic foam carrier, the adhesive tape assures a perfect adaptation to surfaces by compensating for different expansion coefficients of the substrates that are joined.

Suitable for indoor and outdoor applications on smooth and slightly rough surfaces

- High initial adhesion
- Premium final adhesion
- Dimensional stable
- Resistance to plasticizers

Applicable to rubber, fabrics, glass, ceramics, wood, PVC, PC, ABS, PE, PP, metal, spray-painted metal, paper and cardboard.

Special considerations

The surface that you want to label should be clean, dry and free of any surface contamination, such as dust, oil or rust.

When you apply the label, you must use firm pressure to increase the physical contact of the adhesive with the surface of the product.

Pressure sensitive adhesives will provide stronger bonds to a warm surface, as compared to a colder one. The adhesive will 'flow' more readily; increasing the surface area and increasing the adhesion peel strength.

All values shown are averages and should not be used for specification purposes.

Adhesion and tack values have a 15% tolerance allotted to the values stated.

Test data and test results contained in this document are for general information only and shall not be relied upon by customers for designs and specifications, or be relied on as meeting specified performance criteria.

Customers desiring to develop specifications or performance criteria for specific product applications should contact us for further information.

Product Performance and Suitability

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