

## Technical Data Sheet

Issue: 03/2016/v01

Product-Line: GRT-A

Material: Self-adhesive Polyester film with a compressible foam carrier (halogen-free)

TEXTIT-Material-Code: TMC-1009

### Material data:

<b>Material</b>	Top-coated thermal transfer printable Polyester film coated with a permanent pressure sensitive acrylic adhesive mounted with a compressible foam carrier of Polyethylen and backed with a glassine release liner. All materials are free of halogen.
<b>Liner Material</b>	Silicone paper
<b>Description</b>	The GRT-Panel Plates are thermal transfer printable plates, suited to replace engraved signs. The marking is quicker, more effective and even more cost effective than conventional engraved signs and also offers durability and high adhesion strength.
<b>Colours</b>	White and metalized (silver)
<b>Operating temperature</b>	-40°C - +90°C
<b>Recommended application temperature</b>	+18°C - + 35°C
<b>Min. application temperature</b>	10°C
<b>Restistant to</b>	<ul style="list-style-type: none"><li>- Ageing, weathering and UV-radiation</li><li>- Extensive resistance to the influence of chemicals and solvents (domestic cleaners and polishing agents)</li></ul>
<b>Characteristics</b>	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 substates that are joined
<b>Suitable for</b>	indoor and outdoor applications on smooth and slightly rough surfaces
<b>Expected exterior life</b>	2 years
<b>Storage ability</b>	2 years stored at 21°C and 50% relative humidity

<b>Physical properties</b>		
	<b>Value</b>	<b>Test Method</b>
Thickness (micron)	625	ASTM D 3652
Dimensional stability (%)	No shrinkage observed	On Al panel at 70°C for 24 hrs.

<b>Adhesion properties</b>		
<b>Adhesion strength (N/mm)</b>		
Polypropylene	11N/25mm	DIN EN 1939 after 24 hours at 21°C
Polyethylene	5N/25mm	DIN EN 1939 after 24 hours at 21°C
PVC	29N/25mm	DIN EN 1939 after 24 hours at 21°C
Steel	38N/25mm	DIN EN 1939 after 7 days at 38°C and 100 % relative humidity
Shear strength	40N/625mm <sup>2</sup>	on steel according to DIN EN 1943, edition 1996, at 23°C ± 2°C

<b>Technical Properties</b>		
Tensile strength	≥ 150 Mpa	passed
	≥ 15,29 Kg/mm <sup>2</sup>	passed
	≥ 21710 p.s.i.	passed
Elongation	≥ 70%	passed
Breaking strength	≥ 187,5 N/cm	passed
	≥ 19,1 kg/cm	passed
	≥ 107,0 p.i.w.	passed
Electric breakdown	13,5 kV	