



Datenblatt

GT-Technologie

Datenblatt für verwendetes Material

1. Produktbeschreibung

Das System basiert auf einem transparenten Zwei-Komponenten-Polyurethan-System zum direkten Verguss auf PET-Dekorfolien.

2. Einsatzgebiet / Anwendung

- > Erhabene Tasten für Folientastatur
- > Aufwertung von Logos und sonstigen graphischen Bereichen
- > Spezielle Fingerführungen
- > Etiketten mit 3D-Beschichtung

3. Eigenschaften

- > Das fertige gehärtete Polymer zeigt ein hart-elastisches Materialverhalten.
- > Durch mechanische Beanspruchungen auftretende Verformungen des Doms bilden sich nach kurzer Zeit wieder zurück

4. Kompatibel zu gesetzliche Bestimmungen / Normen *Compliance with Directives / Norm*

- > RoHS2: EU-Directive 2011/65/EU
- > REACH: EU Regulation (EG) No. 1907/2006 Annex XIV
- > ELV: EU End-of-Life Vehicles Directive 2000/53/EG
- > UL-Classification: UL94 HB
- > Safety of Toys- Food Contact: EU-Directive 2009/48/EC

5. Mechanische Härte * / Mechanical Hardness *

Tests	Results	Unit	Ref. Method
Hardness @ 23°C	45	Shore D	ASTM D 2240

Datasheet

GT-Technology

Datasheet for used material

1. Product description

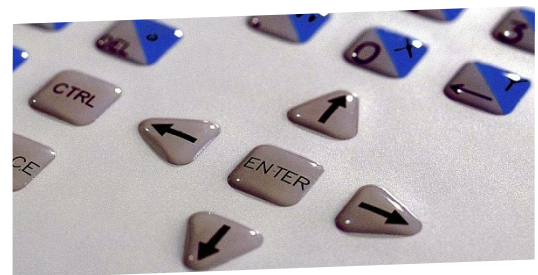
This system is based on a clear two-components polyurethane system to apply directly on polyester foils.

2. Product applications

- > Embossed keys for membrane switches
- > Unique concept possibilities of logos
- > Optimum finger guidance
- > Labels with 3D-coating

3. Product properties

- > The hardened polymer shows a hard-elastic material behaviour
- > Pressure points due to hard objects "mend" on their own and leave no scratches



6. Abriebfestigkeit * / Abrasions Resistance *

Tests	Results	Ref. Method	Test Conditions
Stone Chip Resistance	Chipping rating 10 – No chipping to substrate	SAE J400:85	0.47L of 250-300 graded gravel fired @ sample @ 480KPa in 5-10s

7. Beständigkeit im Außenbereich * / Outdoor Resistance *

Tests	Results	Ref. Method	Test Conditions
Florida Test	Good (after 2 years)	SAE J 1976	Direct Inland, 45° South
Arizona Test	Very Good (after 2 years)	SAE J 1976	Direct Weathering, 45° South
Weatherometer QUV-B	No color change, minimal gloss change	SAE J 2020	800 h (8hUV 60° - 4h cond. 50°C)
Weatherometer QUV-A	No color change, minimal gloss change	SAE J 2020	1600 h (8hUV 70° - 4h cond. 50°C)

8. Chemische Wasserbeständigkeit * / Chemical Water Resistance *

Tests	Results	Ref. Method	Test Conditions
Fuel Resistance	No gloss change No degradation	G.M.6073	Immersion
Acid Resistance	No gloss change No degradation	MS-CG121	Spot Test 0.5 – 10 % conc.
Solvent Resistance	No gloss change No degradation	GM 6121 M	Various types of used chemicals
Water Immersion	No gloss change No degradation	WSK-M3G178	240 h @ 45 °C
Salt Spray Resistance	No gloss change No degradation	ASTM B117-95	2.000 h @ 38°C, 5% NaCl
Humidity Resistance	No gloss change No degradation	MS-CG12	250 h @ 40°C 100% R.H.
Enverionmental Cycle	No gloss change No degradation	G.M.6073	Three Cycles

*) Alle technischen Daten sind keine zugesicherten Eigenschaften, sondern können je nach kundenspezifischem Aufbau abweichen.

*) All technical data are not guaranteed, but may differ depending of the customers specific design.