

Datasheet

GT Technology

- › Dome-shaped, high-gloss plastic domes
- › Can be moulded onto buttons, LEDs or logos
- › Optimum finger guidance
- › Very high mechanical resistance
- › Good tactile feedback
- › Dome height: 1.0 (\pm 0.5 mm), depending on key geometry



Material:

The plastic compound is based on a transparent two-component polyurethane system for direct potting onto PET decorative films.

Field of application / use:

- › Raised keys for membrane keyboard
- › Enhancement of logos and other graphic areas
- › Special finger guides
- › Labels with 3D coating

Properties:

- › The finished cured polymer shows a hard-elastic material behaviour.
- › Deformations of the dome caused by mechanical stresses regress after a short time

Compatible with legal regulations / standards

- › 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

Mechanical hardness*

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

GT Technology

Abrasion resistance *

Tests	Results	Unit	Ref. Method
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

Outdoor resistance*

Tests	Results	Unit	Ref. Method
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)

Chemical water resistance*

Tests	Results	Unit	Ref. Method
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 che micals
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

All technical data are not guaranteed properties, but may deviate depending on the customer-specific design.