

Room 9,11 Floor, Chuangxin Building Block 1#, No.1, Technology Road, Technology Chuangxin Park, West of Dayabay, Huizhou City, Guangdong, P.R. China TEL (86 752) 5533798 FAX (86 752) 5533798-811

Description:

TacusilTM 810049 is a fluorescent indicating version. The product was taken in response to the EU's introduction of DBT (dibutyltin compounds). This product has good adhesion and flexibility to a wide range of plastics (PC PMMA PVC PET NYLON), metal and glass. The use of a dealcoholized neutral resin may minimize erosion of the material. Environmentally friendly, mild and odorless, easy to use and widely used, it is a kind of elastic modified silicone which can be widely used.

Features:

- This product does not contain tin compounds.
- This resin has flexible properties and fracture energy.
- This product has stable properties in a wide range of temperature.
- This product does not volatilize low molecular weight siloxane compounds. It will not pollute the
 electronic devices.
- This resin is one component product without mixing. It is easy to use.
- This product has stable properties and is able to store in the room temperature.
- This resin will fast cure in the air. It can have surface dryness in a short time.
- This product complies to the 2011/65/EU RoHS regulations.
- This product complies to chlorine < 900ppm, bromine < 900ppm, chlorine + bromine < 1500ppm.

Typical Properties: All properties given are at 25°C unless otherwise noted.

Property:	Value:	Unit:
Color	Black	
Appearance	Liquid	
Viscosity 25 °C, S14 20rpm	45,000 - 55,000	cps
Specific Gravity	1.5	
Hardness	52	Shore A
Surface Dry Time, 25°C	8	min
Initial Cured Time, 25°C	30	min
Through Cured Time, 25°C 50%RH 3.2mm	2	days

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Glass Transition Temperature (DSC)	<-35	°C
Coefficient of Thermal Expansion < Tg	168	ppm
Coefficient of Thermal Expansion > Tg	204	ppm
Water Absorption Ratio (25 °C /24hr)	1.15	%
Elongation	97	%
Volume Shrinkage	3.40	%
Thermal Conductivity	0.2	W/mK
Shear Strength		
PC vs. PC	35	kgf/cm ²
ABS vs. ABS	10	kgf/cm ²
PMMA vs. PMMA	27	kgf/cm ²
PET vs. PET	17	kgf/cm ²
PVC vs. PVC	25	kgf/cm ²
Copper vs. Copper	44	kgf/cm ²
SUS vs. SUS	29	kgf/cm ²
Glass vs. Glass	27	kgf/cm ²
Al vs. Al	14	kgf/cm ²
Peel Strength		
NBR	2.5	kgf/25.4mm
SBR	2.6	kgf/25.4mm
EPDM	1.8	kgf/25.4mm
Silicone Rubber	0.3	kgf/25.4mm
Volume Resistivity	1.03* 10 ¹¹	ohm-cm
Surface Resistivity	1.02* 10 ¹²	ohm
Dielectric Constant	3.8 3.4	100Hz 1KHz
Dielectric Constant	3.4	1MHz
Dielectric Strength	14	KV/mm
Temperature Range	-40 - 100	°C

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Thermal Strength/ Thermal Aging:

Strength, Al vs. Al after curing, 25°C*50%RH*7 days	kgf/cm ²
Temperature	Shear Strength
25°C	14
50°C	13
80°C	11
100°C	10
120°C	10

Aging, -40°C (1hr)~ 100°C (1hr)	kgf/cm ²
Cycles	Shear Strength
0	14
100	12
200	11
300	10
400	10
500	9

High Temp & Humidity, 80°C * 90%RH	kgf/cm ²
Time, Hour	Shear Strength
0	14
24	13
72	11
168	10
500	10
1000	10



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INSTRUCTIONS:

- It should be applied to a clean surface which is free of dirt, grease or mold release. In many cases, a simple solvent wipe is sufficient.
- Pour or brush this product onto the substrates, it does not recommend to stir to avoid interfusing the air. This product will be cured with the air. The curing propeties depend on its thickness, curing temperatrue and relative humidity.
- 3. The bottom of the resin might not be cured in thicker application, such as casting, because the bottom of the resin contacts with moisture rarely. It is recommended to prolong the curing time in order to let the moisture spread from the surface to the bottom. It can also cast the resin two times. Cast the resin to the half height at the first time. When the surface is tacky, cast the resin for the second time.
- 4. Use this product as soon as possible after opening the original packages. When not using, please replace the rid tightly and store in a cool and dry place.
- Cure time on the really part will depend upon fators such as part geometry, materials to be bonded, bondline thickness and humidity. Cure schedule should be confirmed with actual production parts and equipment.
- 6. The cured resin is not harmful to human when touching the skin.

STORAGE & SHELF-LIFE:

This product should be kept without any possibility of moisture exposure. Replace the lid immediately after use. This product has a six-month minimum shelf life when stored in dark place below 14~34°C in original, unopened containers.