TYGE SERIES

TYGE series can solve the problem of temperature. It is a heat dissipation product in a gel conditions similar to a liquid form, and takes on the characteristics of changing to a solid condition after curing, whereby various mechanical gaps can be applied.

Features

- Apply liquid state using manual or automatic dispensing to reduce stress on parts
- Smoothly smeared and effectively fills the air gap
- Excellent insulation performance : Breakdown voltage 10 kV/㎜ <
- Excellent flame retardant performance : meet UL94 V-0 level
- High applicability : stable performance under -40 ~ 200 ℃
- Satisfies RoHS and REACH standards

Recommended applications

- Electronic devices (Smart phone's AP chips, Notebook's MPU, PC's CPU, Display etc.)
- Application to Electric automobile parts (Inverter, LED Backlight, EPCU, Battery Pack etc.)
- TIM (Thermal interface material) : to link two joint faces, the heat flow go through equally


ADAS


LED Head Lamp


Battery Pack


Power Electronics

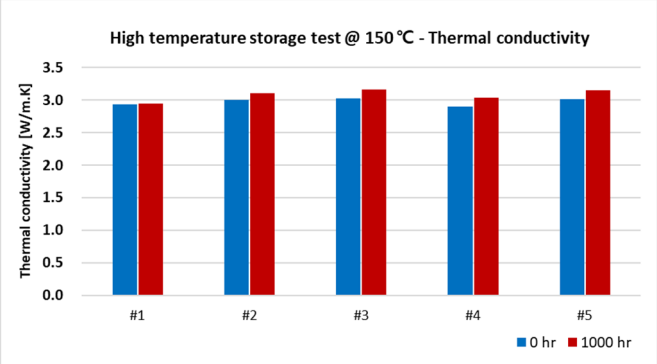
Standard products

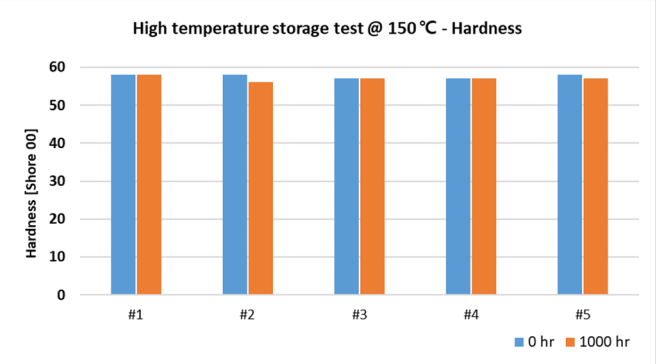
TYGE Series	Test method	TYGE-15	TYGE-20	TYGE-30
Property				
Appearance / Color - Part A	-	Orange	Orange	Orange
Appearance / Color - Part B	-	White	White	White
Mixed Ratio	-	1 : 1	1 : 1	1 : 1
Property As Curing				
Curing condition	20 min @ 100℃, 2 days @ 25℃			
Appearance / Color	-	Orange	Orange	Orange
Density [g/cm^3]	ASTM D792	2.7	2.8	2.9
Thermal conductivity [W/m·K]	ASTM D5470	1.5	2.0	3.0
Hardness [Shore 00]	ASTM D2240	55	55	55
Breakdown strength [kV/mm]	ASTM D149	> 10	> 10	> 10
Volume Resistivity [Ω · cm]	ASTM D257	10^{12}	10^{12}	10^{12}
Flammability	UL94	V-0	V-0	V-0

Performance Data

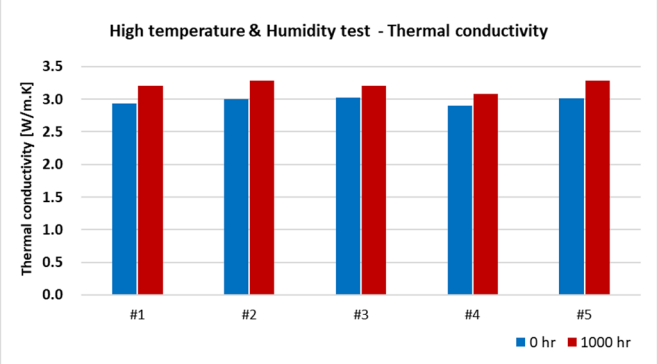
❑ Reliability test

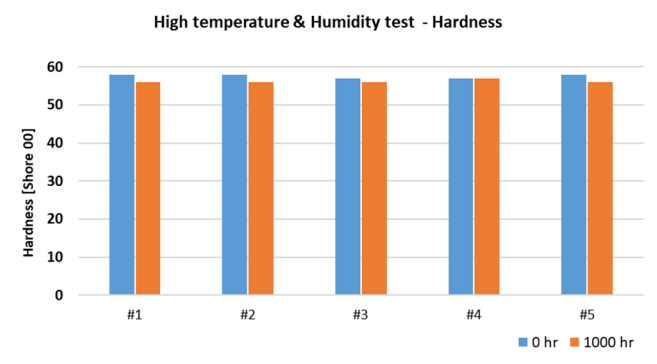
- **High Temperature storage test (150 ℃ 1000hr)**





- **High Temperature & Humidity test (85 ℃ / 85 RH% 1000 hr)**





< TYGE – 30 series test results >