Features

- A liquid crystal polymer (LCP) is used for base materials and cover materials.
- Offers a long-term heat resisting property of 230°C.
- An oil resisting property is provided for engine oil, a brake pedal, and ATF.

Unit:µm

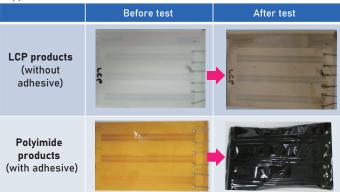


Can be used for the electric wiring in an engine room or gasoline tank meter!

Long-term high-temperature shelf test

Leave a specimen as it is in a high-temperature bath of 230°C for 240 hours and check the appearance and insulation resistance value before and after a test.

[Appearance check]



[Measurement of insulation resistance value (n = 3)] (Standard value: $5.0 \times 108 \ \Omega$ or more)

| No. | Before test | After test |
|-----|------------------------|------------------------|
| 1 | 1.1×10 ¹¹ Ω | 6.5×10 ¹¹ Ω |
| 2 | 1.0×10 ¹¹ Ω | 7.2×10 ¹¹ Ω |
| 3 | 1.0×10 ¹¹ Ω | 6.5×10 ¹¹ Ω |
| 4 | 1.1×10 ¹¹ Ω | 6.7×10 ¹¹ Ω |

Oil resistance test

Immerse and leave a specimen as it is in each heat medium of 150°C for 50 hours and check the conductor peel strength, insulation resistance value, and appearance.

[Appearance check]

| Heat medium | After test | Result |
|-------------|------------|------------------------------|
| Engine oil | | No blistering and peeling |
| Brake oil | | No blistering and peeling |
| ATF | | No blistering and peeling |

[Conductor peel strength (Mean value of n = 3)] Standard value: 0.49 N/mm or more (See JIS C 5017.)

| Heat medium | Peel strength (N/mm) | |
|-------------|------------------------|--|
| Engine oil | 0.567 | |
| Brake oil | 0.993 | |
| ATF | 0.797 | |

[Measurement of conduction resistance value (Mean value of n = 3)]

| Heat medium | Before test (Ω) | After test (Ω) | Change rate (Ω) |
|-------------|--------------------|-------------------|--------------------|
| Engine oil | 0.794 | 0.794 | 0.0% |
| Brake oil | 0.766 | 0.785 | 2.4% |
| ATF | 0.794 | 0.796 | 0.2% |

