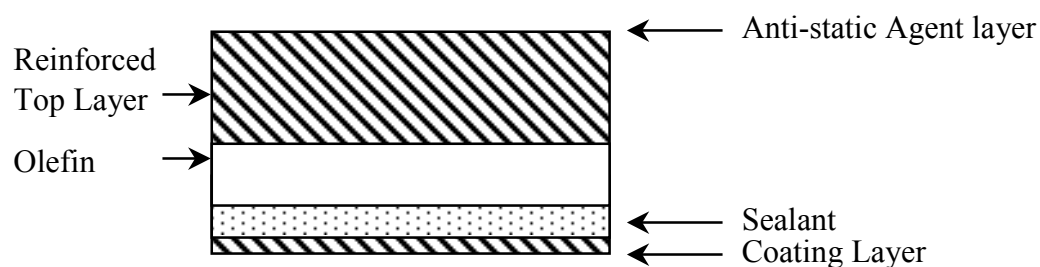


SUMICARRIER

TECHNICAL REPORT

COVER TAPE

CSL-Z4111STRUCTUREPHYSICAL PROPERTIES

ITEMS		Test Method	CSL-Z4111	Brand B
Thickness (mm)		Microgauge	0.055	0.062
Tensile strength (MPa)		ASTM D638 (JIS K6734)	109	54
Tensile impact strength (kJ/m ²)		ISO 8256	2095	948
Luminous Transmittance(%)		ASTM D1003 (JIS K7105)	89	82
Haze(%)		ASTM D1003 (JIS K7105)	45	60
Surface Resistivity (ohm/square)	PET SIDE	ASTM D257 (JIS K6911)	10 ¹⁰	10 ¹⁰

Typical Laboratory Tests data only.

Note

- Excellent tough cover tape in the world
- Good transparency



Sumitomo Bakelite Co., Ltd.

SUMICARRIER
TECHNICAL REPORT

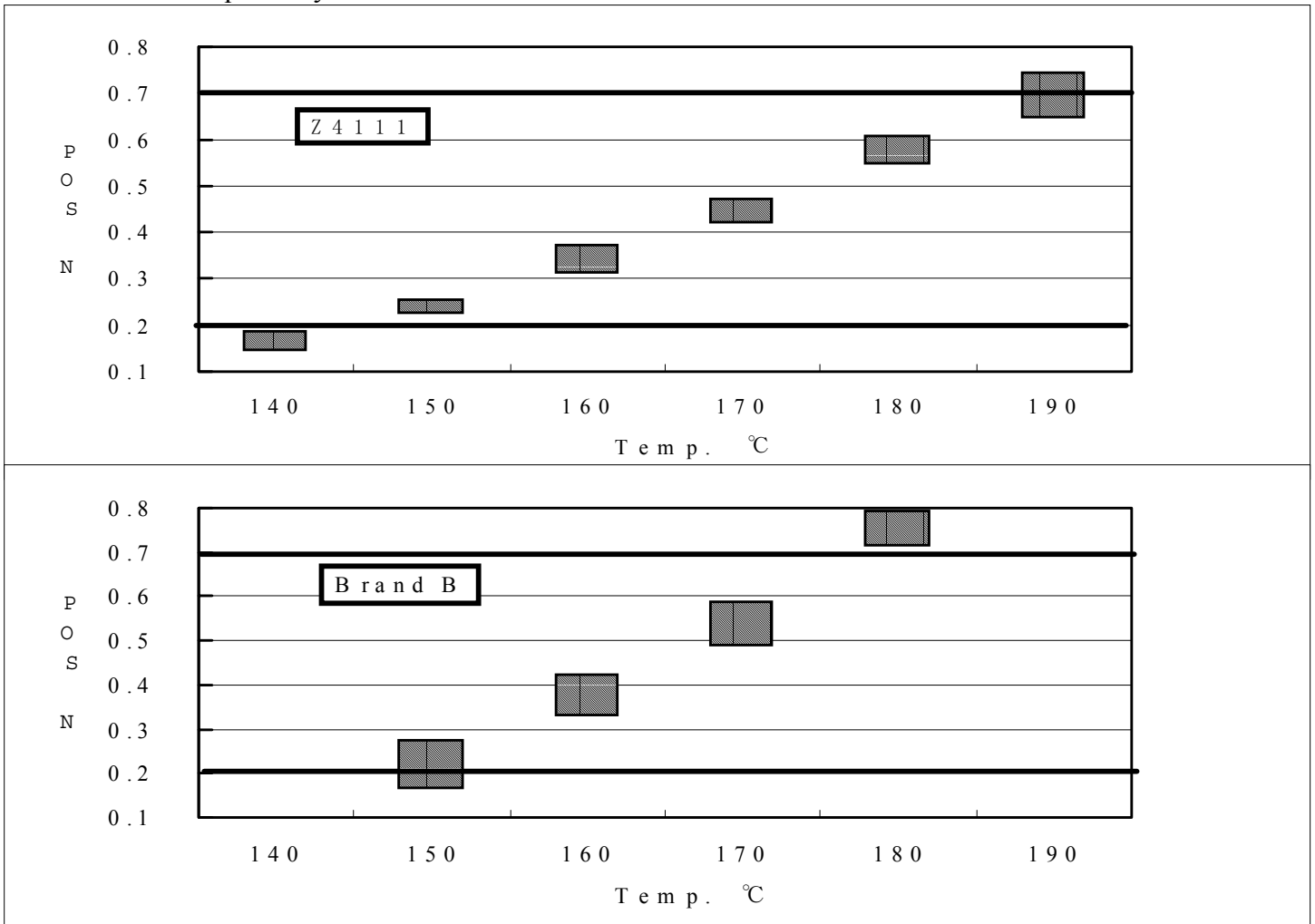
COVER TAPE

CSL-Z4111

GRAPH OF P.O.S Vs TEMPERATURE

Material : CST-100V(General PS)

POS required by customers : 0.2 ~ 0.7 N



SEALING CONDITIONS :

- Sealing Machine : ISMECA MBM-4000
- Peeling Machine : GPD 856V (at 300 mm/min)
- Pressure : 15 N
- Shoe Width : 0.4 mm
- Shoe Length : 8 mm
- Mode : Stamping

Note

- Wide operation window
- Sealing availability at low temperature



SUMICARRIER
TECHNICAL REPORT

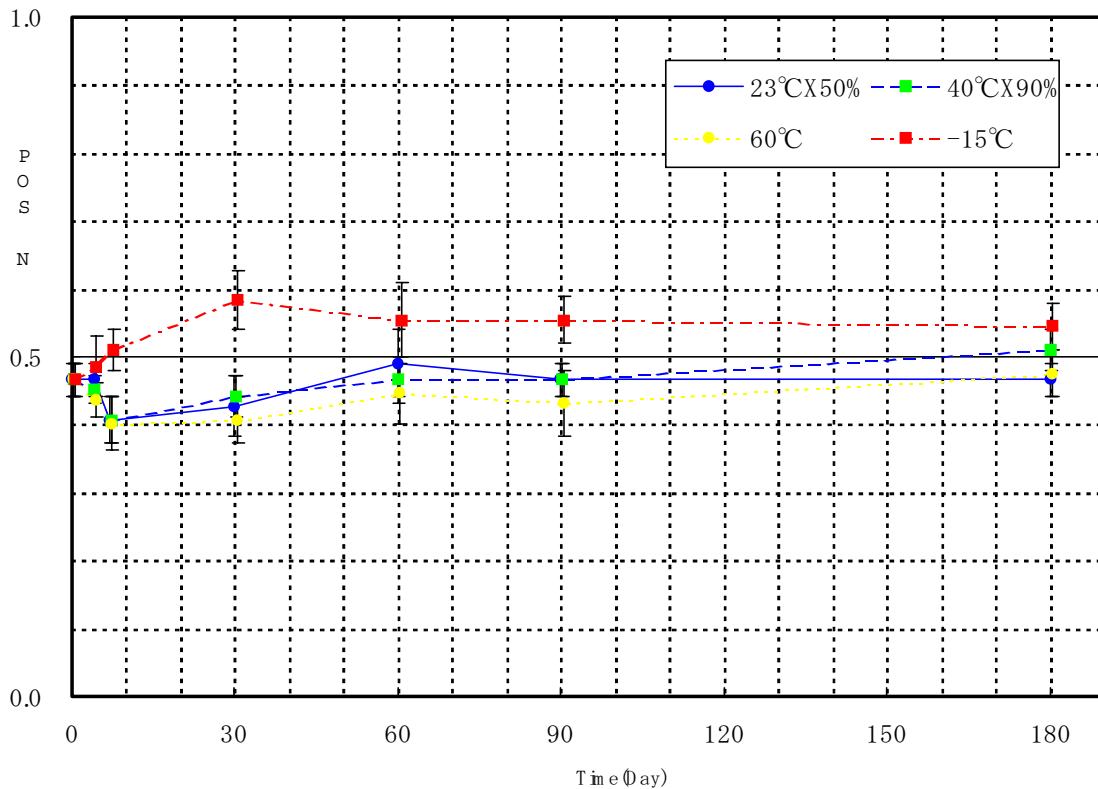
COVER TAPE

CSL-Z4111

COVER TAPE AGING BEFORE SEALING

-- PEEL OFF STRENGTH CHARACTERISTICS

Carrier Tape :CST-100V(General PS)



SEALING CONDITIONS :

Sealing Machine : Ismeca MBM-4000
 Peeling Machine : GPD 856V (at 300 mm/min)
 Temperature : 140°C
 Pressure : 15 N
 Shoe Width : 0.4 mm
 Shoe Length : 32 mm
 Mode : Stamping

Note
 - Stable p.o.s. under various storage conditions



SUMICARRIER
TECHNICAL REPORT

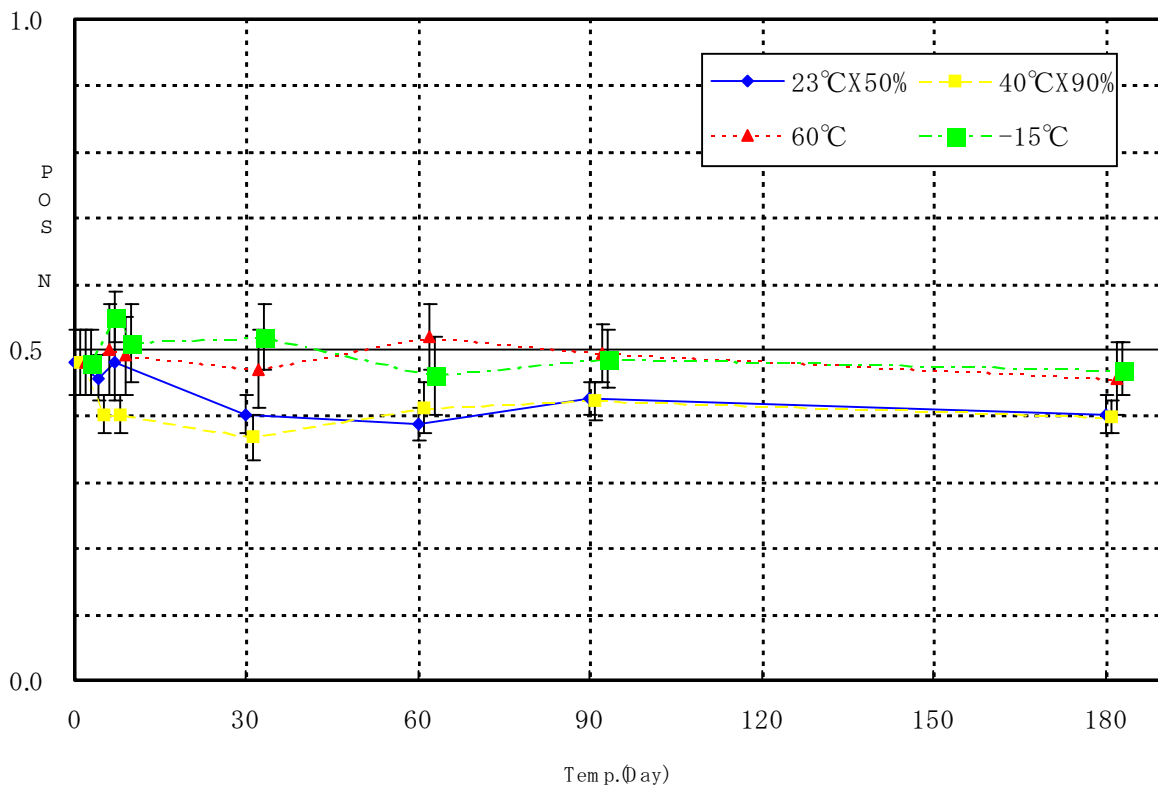
COVER TAPE

CSL-Z4111

COVER TAPE AGING AFTER SEALING

-- PEEL OFF STRENGTH CHARACTERISTICS

Carrier Tape :CST-100V(General PS)



SEALING CONDITIONS :

Sealing Machine : Ismeca MBM-4000
 Peeling Machine : GPD 856V (at 300 mm/min)
 Temperature : 140°C
 Pressure : 15 N
 Shoe Width : 0.4 mm
 Shoe Length : 32 mm
 Mode : Stamping

Note
 - Stable p.o.s. under various storage conditions



SUMICARRIER

TECHNICAL REPORT

COVER TAPE

CSL-Z7302,Z4111

- guide for seal condition -

□ Features and performance during taping

◆ Peeling mode

Our cover tape has transcription type of mode for peeling mechanism which is that the area of sealant being heated by shoe will be left on carrier tape surface. It appears as white residue line on carrier tape surface.

◆ Reaction to Heat

In general, 160°C -200°C sealing Temperature is used.

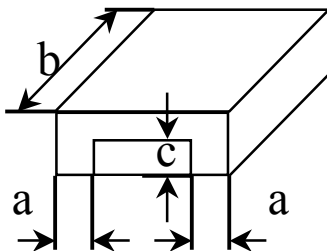
◆ Reaction to Pressure

Peel-off-strength on Our cover tape is not so affected by Pressure during sealing. It is recommended that Peel-off-strength is varied mainly by adjusting Temperature.

note: recommended to apply the pressure between 10 to 30 N.

The pressure below 10 N may bring non-seal. Above 30 N may bring wrinkles on cover tape and in worst case, such high pressure may cause tearing.

◆ Design of seal shoe



-recommend shoe size- <mm>

carrier tape width	8 mm	> 12 mm
a	0.3-0.5	0.3-0.5
b	8-40	30-60
c	> 2	> 2

Note: Minimum 2 mm is necessary for c. Insufficient clearance at c will make wrinkle on cover tape surface.

※ Remarks: the values in this page are for reference only as taping machine at customers are often customized.



Sumitomo Bakelite Co., Ltd.

SUMICARRIER

TECHNICAL REPORT

COVER TAPE

CSL-Z7302,Z4111
- guide for Storage condition -

Recommended to be stored at:

**BELOW 25°C * 65%RH IN A ROOM,
NOT EXPOSED UNDER DIRECT SUNSHINE**

However, the products being kept in a room below 30°C *80%RH for not exceeding 6 months does not show any problem for actual usage .

Not recommended to be kept in over 40°C *80%RH condition without packing as it may bring stickiness of the top layer and the adhesive layer.

To prevent it, please pack it by such as Polyethylene film during storage.

SHELF LIFE OF Z7302 & Z4111

**-----TWO YEARS AFTER PRODUCTION DATE-----
(under recommended storage condition)**

