Dexerials

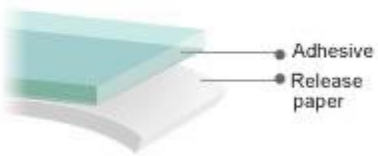
Technical Data Sheet

Thermal conductive adhesive transfer tape UT6520

Features

- Adhesive tape with lower environmental impact with UV curable manufacturing method (non solvent adhesive coating process).
- High thermal conductivity.
- High heat resistance; can be used in environments of up to 120℃.

Structure



Main component	Acrylic
Carrier	Non
Color	White
Adhesive thickness（μm）	About 200
Release paper thickness（μm）	About 150
Bonding strength（N/20mm）*	4.00
St'd size (width & length)）	480mm × 50M

*90° Peeling strength /substrate : stainless steel SUS304 (surface is polished by #280 sandpaper)

Suitable use

- Can be used to fix the heat sink of LED backlight and LED illumination device.

[Remarks]
*The above values are sample observed values, not the guaranteed performance.

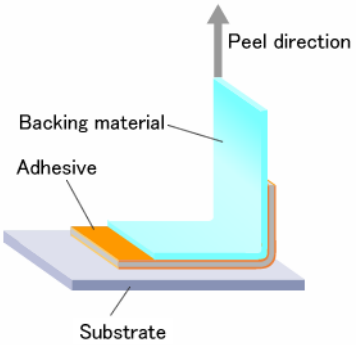
1. Bonding strength on various type of substrate(90° peeling)

＜Test piece condition＞
Tape width : 20mm
Bonding condition : One stroke with 2-kg roller
Measuring condition:23℃±5℃ 60%±20% RH
Peeling speed : 300mm/min
Backing material : 40μm Aluminum foil
[Left at RT for one hour before measurement]

＜Test data＞

（N/20mm）

Substrate	Aluminum	Glass epoxy
90° Peeling strength	7	8



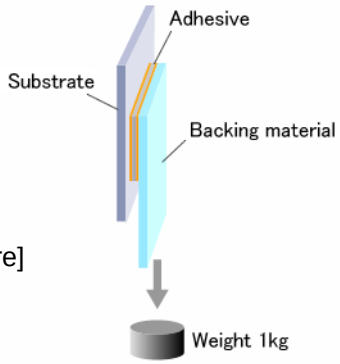
＜ 90° Peeling strength test ＞

2. Holding power at different temperatures

＜Test piece condition＞
Substrate：Stainless steel plate（SUS304）
Bonding area：25mmx25mm
Bonding condition：One stroke with 2-kg roller
Backing material：40μm Aluminum foil
[Left at RT for one hour and then at each temperature for 30 minutes before measurement]
[Creep length after one hour application of 1-kg load at each temperature]

＜ Test data ＞

Measurement temperature	40℃	100℃
Creep length（mm）	0.2	0.2



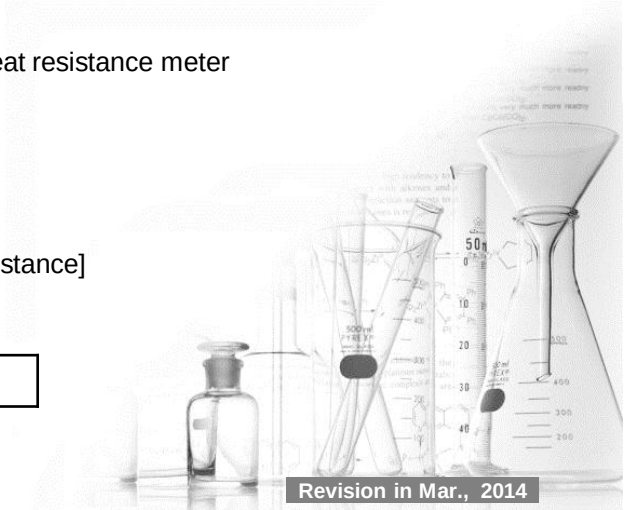
＜Holding power test＞

3. Thermal conductivity ：Measured by our self-made heat resistance meter

＜ Test piece condition ＞
Test piece size：15mm × 15mm
Setting electric power of heater：10W
Pressure：0.3MPa
[Left at RT for 30 minutes or more and measure heat resistance]

＜ Test data ＞

Thermal conductivity（W/(m･K)）	1.0



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