

Acrylic slightly adhesive sheet based on polyester film : Silicone-free type

SF-PET75-Y2P30 series

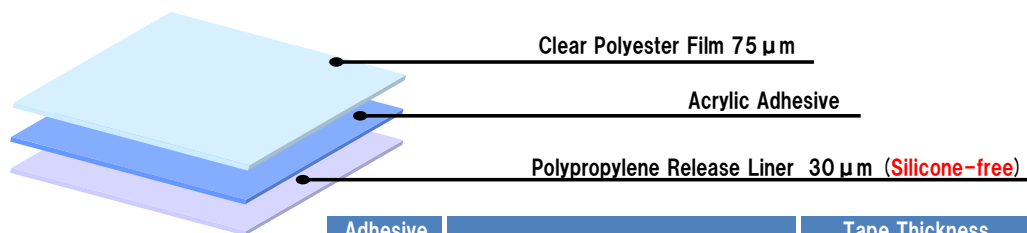
Outline

SF-PET75-Y2P30 series are silicone-free adhesive sheets with a polyester film base coated with an acrylic adhesive that is easy to peel and has high removability.

Used as a carrier or protector film during processing because of reliable removability and easy, light peeling.

All series of all production process is conducted in clean-room.

Structure



Adhesive strength	Product Name	Tape Thickness (μm)	Base film (μm)
low high	SF-PET75-Y250 (10) P30	85	75
	SF-PET75-Y210 (10) P30	85	75

Properties

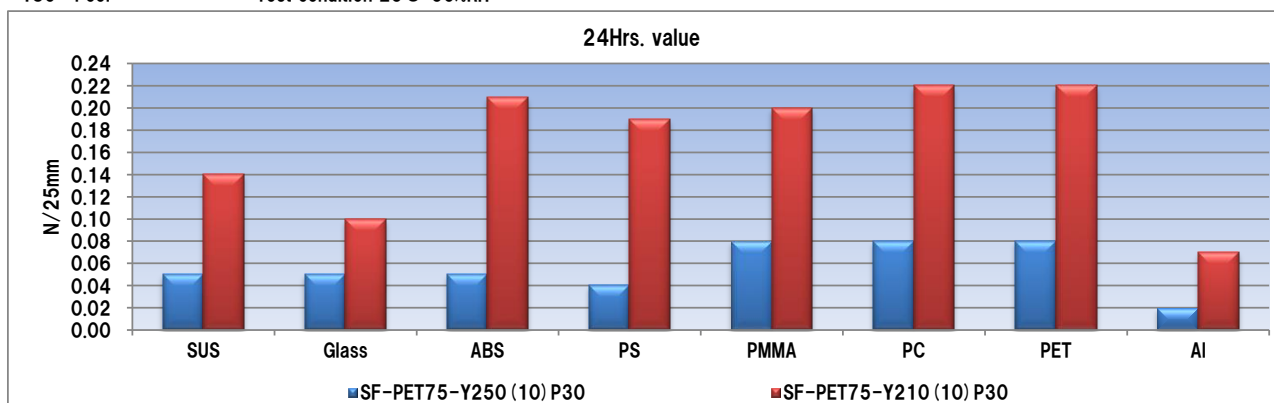
◆ Adhesive strength

Substrate	SF-PET75-Y250 (10) P30		SF-PET75-Y210 (10) P30	
	20min.	24hrs.	20min.	24hrs.
SUS	0.03	0.05	0.08	0.14
Glass	0.04	0.05	0.10	0.10
ABS	0.04	0.05	0.15	0.21
PS	0.03	0.04	0.14	0.19
PMMA	0.07	0.08	0.18	0.20
PC	0.07	0.08	0.20	0.22
PET	0.07	0.08	0.21	0.22
Al	0.02	0.02	0.05	0.07

Unit: N/25mm

【Test method】

- JIS Z 0237 (2000)
- Peel Speed 300mm/min
- 180° Peel
- Test condition 23°C•50%RH

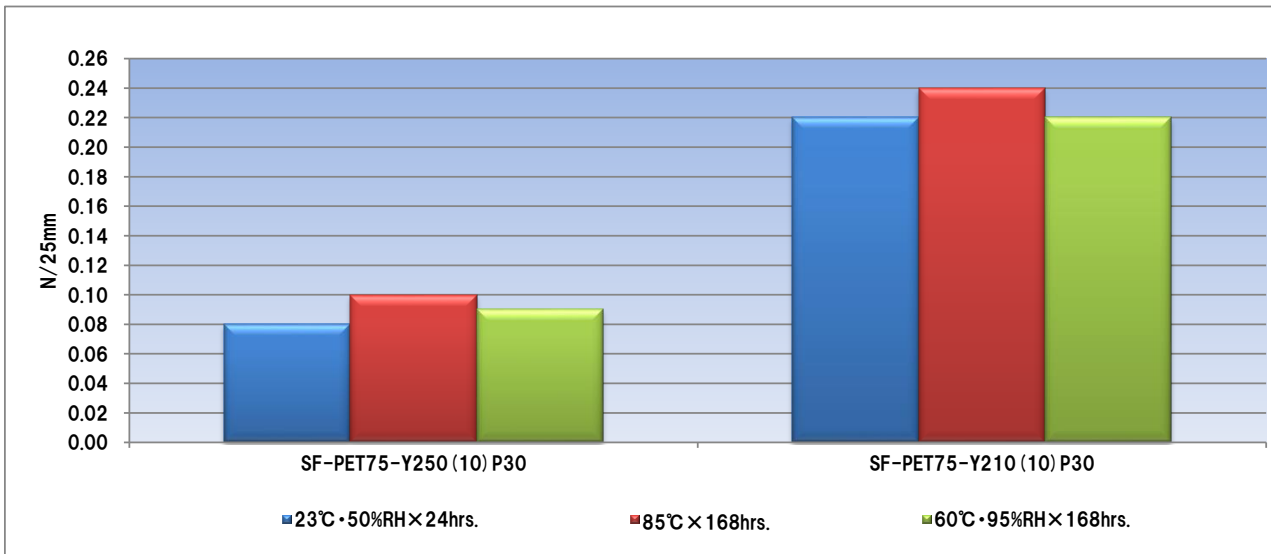


Properties

◆Adhesive strength After The Environmental Test (Substrate:PET)

Test condition	SF-PET75 -Y250 (10) P30	SF-PET75 -Y210 (10) P30
23°C·50%RH×24hrs.	0.08	0.22
85°C×168hrs.	0.10	0.24
60°C·95%RH×168hrs.	0.09	0.22

【Test method】
 •JIS Z 0237 (2000)
 •180° Peel
 •Peel Speed 300mm/min
 •Test condition 23°C·50%RH
 Unit:N/25mm



◆Removability after environmental testing

	Heat resistance test (85°C×168H)		Heat and humidity resistance test (60°C·95%RH×168H)	
	Y-250	Y-210	Y-250	Y-210
SUS	○	×	○	△
Glass	◎	◎	◎	◎
ABS	◎	◎	◎	◎
PS	◎	◎	◎	◎
PMMA	◎	◎	◎	◎
PC	◎	◎	◎	◎
PET	◎	◎	◎	◎
AL	◎	◎	◎	◎

Assessment of removability

◎>○>△>×

◎:Excellent ○:Only slightly stained
 △:Stained ×:Cohesion failure

Properties

◆Siloxane analysis (FT-IR)

Required Test	Analyte	Results (ng/cm ²)
FTIR (Label/Tape)	Silicone at Wave No: 1260, 1100, 1020 & 800cm ⁻¹	Not Detected
	Amide	Not Detected
	DOP	Not Detected
FTIR (Liner)	Silicone at Wave No: 1260, 1100, 1020 & 800cm ⁻¹	<IDL
	Amide	Not Detected
	DOP	Not Detected
Silicone (PDMS) (Label/Tape)	Silicone at Wave No: 800 ± 10 cm ⁻¹	Not Detected
	Silicone at Wave No: 1020 ± 10 cm ⁻¹	Not Detected
	Silicone at Wave No: 1100 ± 10 cm ⁻¹	Not Detected
	Silicone at Wave No: 1260 ± 10 cm ⁻¹	Not Detected
	Judgment Criteria	Not Detected
Silicone (PDMS) (Liner)	Silicone at Wave No: 800 ± 10 cm ⁻¹	Not Detected
	Silicone at Wave No: 1020 ± 10 cm ⁻¹	Not Detected
	Silicone at Wave No: 1100 ± 10 cm ⁻¹	Not Detected
	Silicone at Wave No: 1260 ± 10 cm ⁻¹	Not Detected
	Judgment Criteria	Not Detected
Siloxane 3 unwanted peak (Label/Tape)	unwanted peaks at Wave No: 758 ± 5 cm ⁻¹	Not Detected
	unwanted peaks at Wave No: 845 ± 5 cm ⁻¹	Not Detected
	unwanted peaks at Wave No: 866 ± 5 cm ⁻¹	Not Detected
	Judgment Criteria	3 unwanted peaks not detected
Siloxane 3 unwanted peak (Liner)	unwanted peaks at Wave No: 758 ± 5 cm ⁻¹	Not Detected
	unwanted peaks at Wave No: 845 ± 5 cm ⁻¹	Not Detected
	unwanted peaks at Wave No: 866 ± 5 cm ⁻¹	Not Detected
	Judgment Criteria	3 unwanted peaks not detected

[Test method]

• Analysis: FTIR • Number of pieces used for extraction: 10 cm² • Extraction Medium: n-Hexane (HPLC Grade)
• Extraction Volume: 10 mL

Note: The above analysis was carried out using FTIR spectrometer equipped with a MCT detector & a VATR accessory.
The instrument detection limit for silicone oil is 0.05 ug

Notices

Attach after wiping off oily, dusty and moisture substances on the surface of the adherend you may use.

Give an enough pressure when attaching, under the temperature condition over 10°C as possible.

Store it in a cool, dark place away from direct sunlight.

These data are representative so as not to guarantee for your conditions,nor do they for the wide range of each application described in this technical information.

Examining the compatibility of the adherend material with our product in advance, make a decision of starting to use.

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