

Adhesive coated polyester base film

# DIALAMY<sup>®</sup> FC

## ■ Characteristics

1. Excellent lamination characteristics.
  - Fabrication can be done without solvent, so there's no fear of foaming by volatilization.
  - By means of keeping suitable temperature, high speed lamination is possible.
2. Excellent adhesion characteristics.
  - Excellent adhesion to PET and tinned copper foil
  - Low dependence of adhesion property on temperature.
3. Excellent blocking resistance
  - Excellent handling and storage properties.

## ■ Applications

1. Flexible flat cable reinforcements

## ■ Specifications



- Biaxial oriented PET film(125um)
- Printing
- Adhesion (40um)

## ■ Properties

Items	Units	Value				Method
		K2-125/40		K2-188/40		
Tensile Strength	MPa	140.5		150.2		JIS C 2318
Elongation	%	143.1		179.0		JIS C 2318
Elongation on heating	%	P	V	P	V	JIS C 2318
		-1.3	0	-1.0	-0.1	JIS C 2318
Dielectric breakdown voltage	KV	20.9		26.3		JIS C 2318

\* The values mentioned above are typical ones, but not guaranteed ones.

■ Adhesion properties

	Grade	Ambient temperature (°C)										
		-20	-15	-10	-5	0	5	10	15	23	30	40
Cable PET side	H32	0.5	1.2	2.0	5.6	7.0	9.5	9.0	8.0	9.2	9.0	11.5
	S32	0.5	0.5	0.5	0.8	3.2	8.6	14.1	12.0	10.4	14.2	14.0
	K2	1.3	2.0	10.2	11.6	14.3	17.6	15.6	16.5	19.9	18.9	26.0
	Others	0.4	0.4	0.4	0.5	0.4	2.0	5.8	11.0	14.3	12.8	12.5
Sn copper foil side	H32	0.5	1.2	1.2	5.6	7.0	9.5	9.0	8.0	9.2	9.0	11.5
	S32	0.5	0.5	0.5	0.8	3.2	8.6	14.1	12.0	10.4	14.2	14.0
	K2	9.0	15.8	15.0	14.0	14.5	15.0	14.0	11.1	14.1	16.0	15.2
	Others	0.2	0.2	0.2	0.2	6.0	9.4	12.2	14.7	16.9	13.6	14.9

\* H 3 2 :Excellent adhesion characteristics under low temperature.

\* S 3 2 : Excellent adhesion characteristics to metallic materials especially

\* K 2 :High-performance grade, having properties of both H 3 2 and S 3 2 .

\* The values mentioned above are typical ones, but not guaranteed ones.

● Lamination conditions

Lamination equipment: Heatseal bar test instrument

- Adherend: Flexible flat cable PET side, tinned copper foil side
- Heat sealer
  - Temperature: Upper heat bar:155°C, under heat bar130°C
  - Pressure:7.8kg/cm<sup>2</sup>
  - Time:30sec.

Peeling strength measuring equipment: Tensile test instrument

- Speed:10mm/min
- Bend angle bend:180 degree angle
- Temperature: Ambient temperature

\* The conditions mentioned above are of our standard method. Please check if the face of adhesive is heated enough for testing.

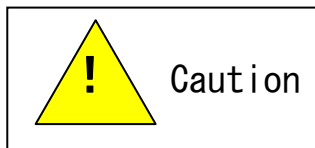
## ■ Important Safeguards

Directions for safe use are prepared for the purpose of maintaining the safety of customers, your clients and property. The products carrying warning and caution notice, please read the following details.



If this product is mishandled in defiance of this sign, you may have a risk of death or serious injury.

- Absolutely do not implant, insert in the body.
- Never use for any applications for which the material will be left in the body.
- In case of using for medical devices, foodstuff, other special purpose applications, please test and make certain that you can do so safely.



If this product is mishandled in defiance of this sign, you may have a risk of serious injury and property damage.

- During forming and carrying, wear proper protective equipment to prevent possible injury to hands and fingers.
- Don't use for foodstuff.
- Avoid inhaling of bromine containing smoke generated by burning Dialamy film with other combustible material.
- Avoid to store the area that are wet, hot or humid, or place of direct sunlight. Store in a cool and dark place.
- Dispose of the scrap as incombustible waste material.