

Release film

High heat resistant film

Neoflon PFA film

Heat resistance

Releasing property

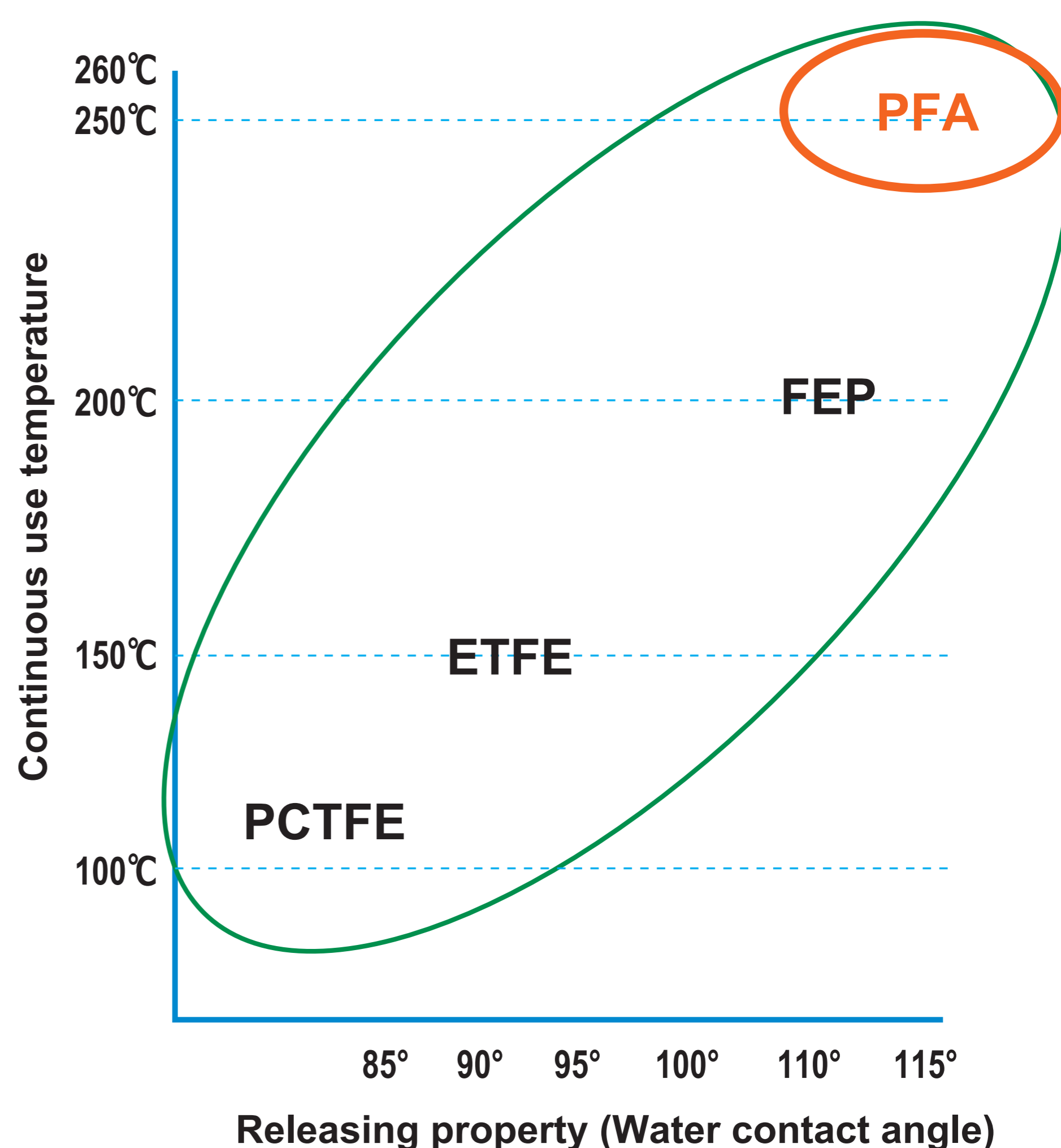
- **PFA film has excellent heat resistance. Continuous use temperature is 260 °C.**
- **PFA film has excellent releasing property. The releasing property is better than another fluoropolymer Film.**

Material properties

	PFA	FEP	ETFE	PCTFE
Melting point	305°C	270°C	260°C	210°C
Maximum temperature for continuous use	260°C	200°C	150°C	120°C
Thermal stability	◎	◎	○	○
Chemical resistance	◎	◎	◎	○
Tensile strength	△	△	○	△
Non-stick property	◎	◎	○	○
Water contact angle (degree)	115°	114°	96°	83°
Water vapor permeability	○	○	△	◎
(0.1mm thickness)	2g/m ² ·d	1g/m ² ·d	6g/m ² ·d	0.1g/m ² ·d
Non-flammability	◎	◎	○	◎

* The thickness of the film is 12.5, 25, 50, 100, 250 ~ (μm)

Functional comparison



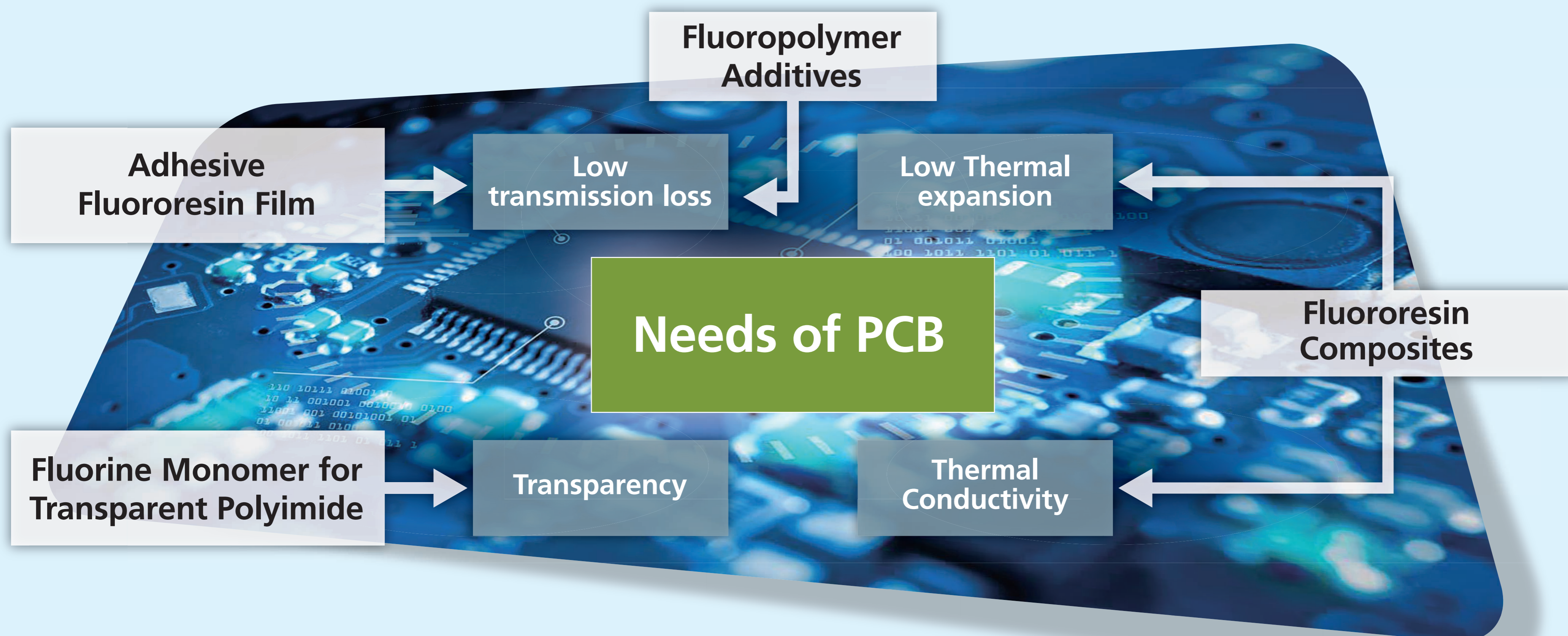
- **DAIKIN Industries has a variety of film(PFA,FEP,ETFE,PCTFE).**
So, we can possible to propose the most suitable film according to the necessary heat-resistance and release characteristics.
- **Our Film does not contain any additives, nor coat on the film.**
So, our film does not contaminate other materials.
Surface treatment type film for imparting adhesion is also available.

Applications

- Release film for PCB

Fluorochemicals for Print Circuit Board (PCB)

Contribute to 5G with PCB by DAIKIN's fluorochemicals



Adhesive fluororesin film (under development)

Low Dielectric Property

Multi-layered

- **Surface treated PFA film shows high peel strength with no surface treatment Cu foil. : $\geq 1.0\text{N/mm}$**

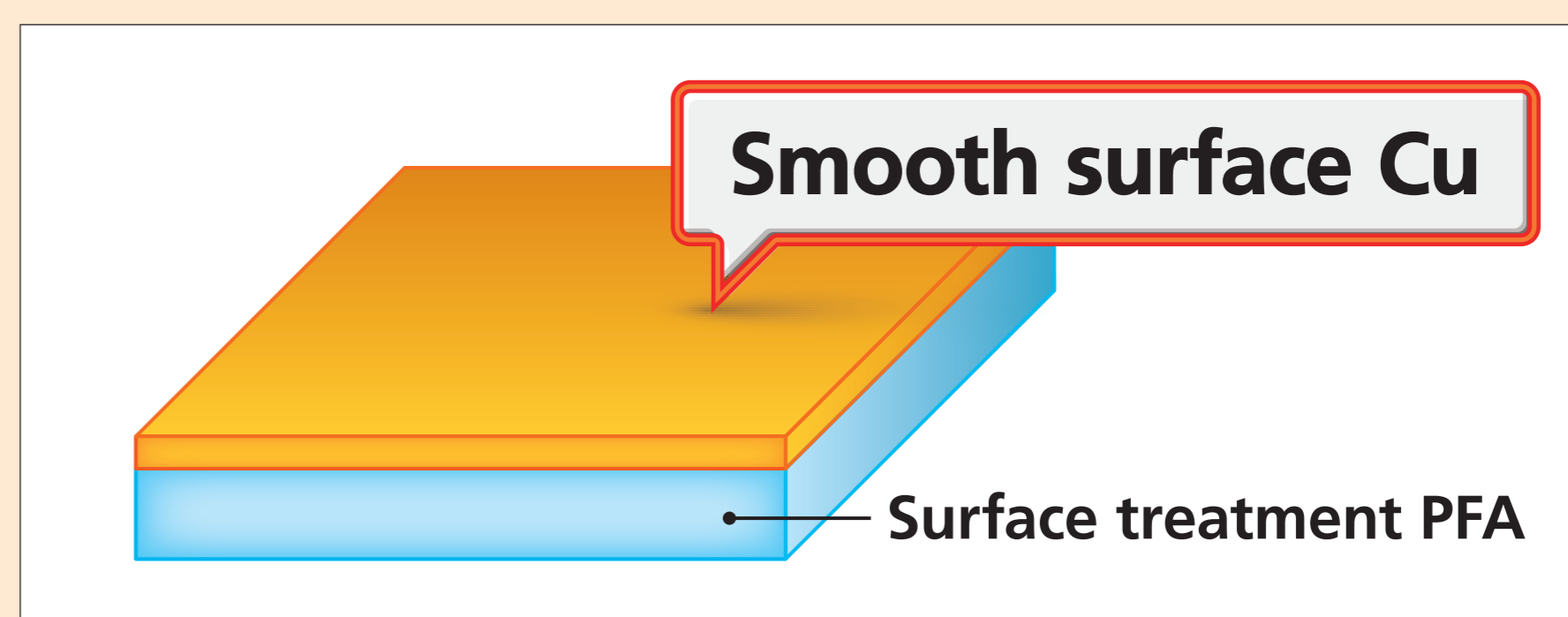
- Added adhesiveness to PFA film by surface treatment.
- Thinner film : thickness $12.5\mu\text{m}$ ~ ● Enables laminating with various types of materials.

Property of surface treated PFA film

Item	Unit	Typical Value
Melting Point	°C	300~305
Dielectric Constant (@12GHz)	—	2.0~2.1
Dissipation Factor (@12GHz)	—	0.0010~0.0015
Water Absorption (24h)	%	< 0.01
Copper Peel Strength (Rz:0.85 μm)	N/mm	≥ 1.0

Daikin original Surface treatment

Surface Treated PFA film shows high Peel strength with no surface treatment Cu Foil.



Applications

- FPC & PCB for high frequency