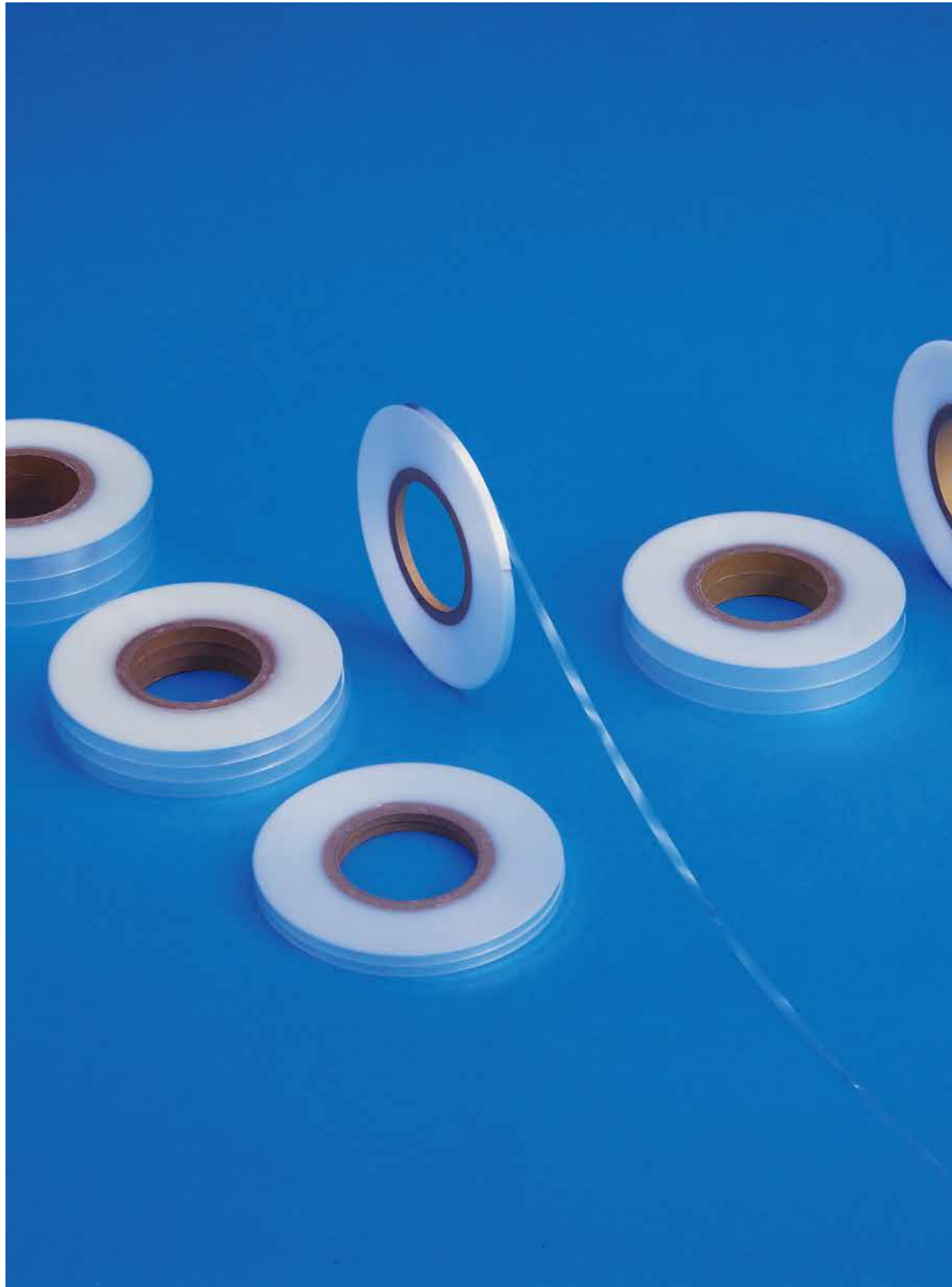




Shin-Etsu Film

Wrapping Film for Molding Process Shin-Etsu Wrapping Films



Wrapping Film for Molding Process Shin-Etsu Wrapping Films

We applied the production technology that we developed for capacitor film, to produce our wrapping films.

Shin-Etsu wrapping films are used in carbon fiber prepreg molding.

They are ideal for wrapping cylindrically molded objects such as fishing rods and golf club shafts.



■ Features

1. Tensile characteristics

Having tensile strength over 196 MPa, our tapes can resist proper tension for wrapping. This feature results in molded objects with excellent strength.

2. Heat shrinkage and stress characteristics

Our tapes have heat shrinkage and stress characteristics that match the curing speed of matrix resin (epoxy) in carbon fiber prepreg when it fuses and cures.

3. Releasability

These tapes have excellent releasability, so the film can easily be removed from the molded object after curing.

■ Applications

Our tapes are used for wrapping cylindrically molded objects made of carbon fiber prepreg such as fishing rods and golf club shafts.

■ Classifications (material, thickness)

Item	Unit	PT-30H	PT-30W	PT-30SD	PT-25SD	PT-22SD	PT-30SD2	PET-25K	PET-25C
Material*	—	OPP	OPP	OPP	OPP	OPP	OPP	PET-K	PET-C
Thickness	μm	30	30	30	25	22	30	25	25

* OPP: biaxially oriented polypropylene film

PET-K: biaxially oriented polyester film with silicone applied to its surface

PET-C: biaxially oriented polyester film

■ General properties

Item		Unit	PT-30H	PT-30W	PT-30SD	PT-25SD	PT-22SD	PT-30SD2	PET-25K	PET-25C
Tensile strength	MD	MPa [kgf/mm ²]	196 [20.0]	190 [19.4]	221 [22.5]	240 [24.5]	241 [24.6]	260 [26.5]	211 [21.5]	197 [20.1]
	CMD	MPa [kgf/mm ²]	274 [28.0]	257 [26.2]	175 [17.9]	190 [19.4]	196 [20.0]	165 [16.8]	176 [18.0]	202 [20.1]
Elongation at break	MD	%	117	102	68	112	98	70	132	122
	CMD	%	62	64	135	133	122	138	134	126
Heat shrinkage (120°C×15min)	MD	%	2.0	2.1	1.5	2.4	2.4	3.2	—	0.5
	CMD	%	0.2	0.2	-0.5	-0.5	0.9	-0.4	—	0.0
Heat shrinkage (120°C×120min)	MD	%	—	—	—	—	—	—	0.8	—
	CMD	%	—	—	—	—	—	—	0.0	—
Haze		%	2	2	5	1	1	5	1	1

[] =conventional unit

(The above values are measured values, not standard values.)

■ Product Lineup

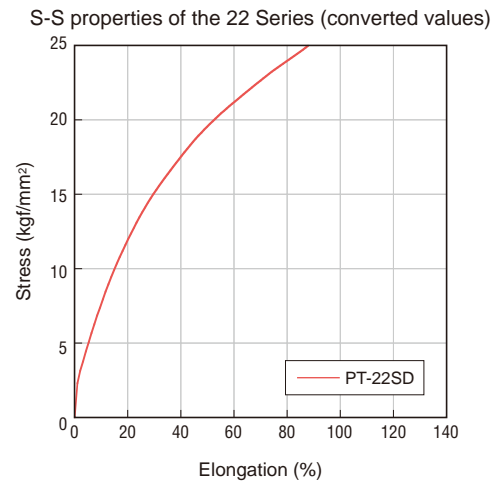
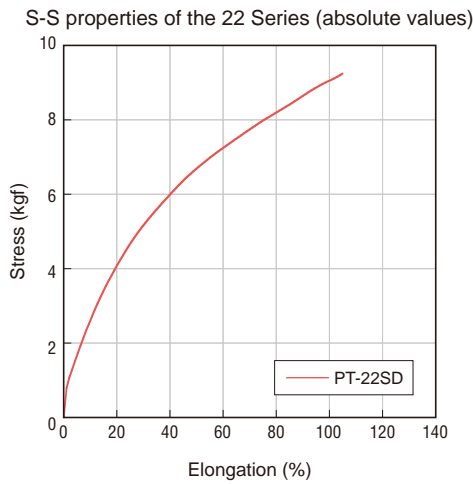
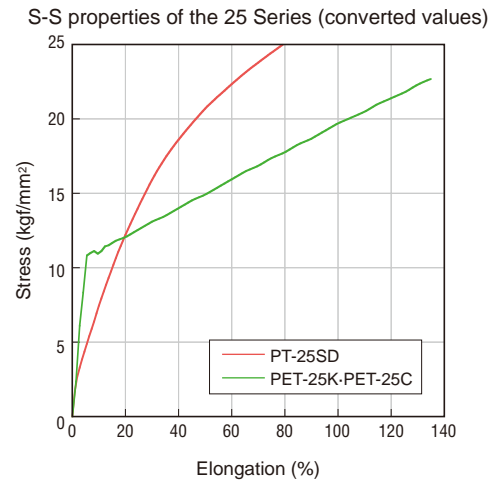
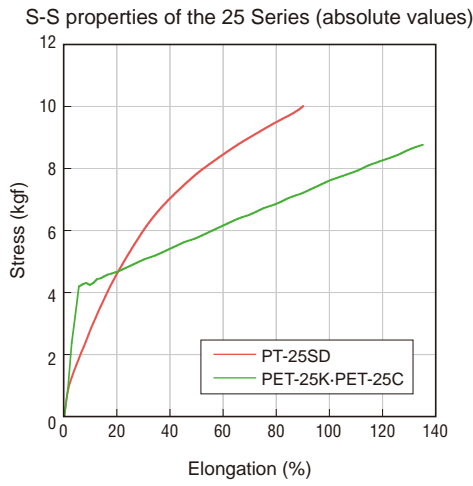
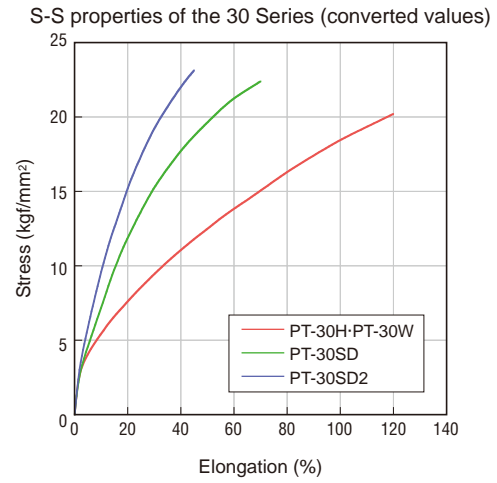
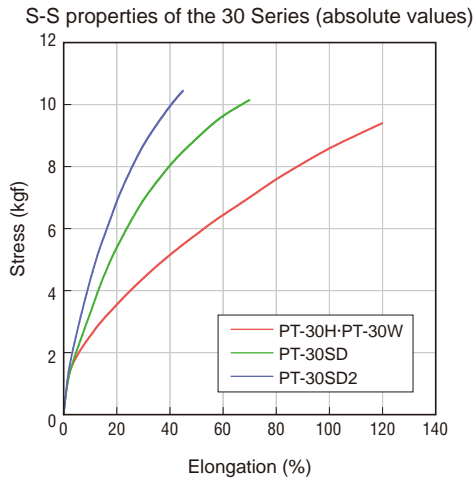
Product Name	Length	Width (mm)								
		6	8	10	12	15	18	20	25	30
PT-30H	500m	●	●	●	●	●	●	●	●	
	1,000m					●		●		●
PT-30W	500m		●		●		●		●	
	1,000m			●	●	●		●	●	
PT-30SD	500m	●	●	●	●	●	●	●		●
	1,000m					●		●		●
PT-25SD	500m	●	●	●	●	●	●	●		●
	1,000m			●	●	●		●		
PT-22SD	500m	●	●	●	●	●				●
	1,000m					●		●		
PT-30SD2	500m	●		●	●	●		●	●	●
	1,000m					●		●	●	●
PET-25K	500m			●	●	●		●		
	1,000m					●		●	●	
PET25C	500m					●				
	1,000m					●				
Core		ID=76.5mm (±0.5)mm								

●: standard products

■ Storage and Handling Precautions

- Store indoors in a cool place, out of direct sunlight.
Products should be used as soon as possible after delivery.
- The core may loosen due to seasonal temperature fluctuations.
- Take care not to damage the tape edge; even minor damage may lead to tape breakage.

■ Mechanical properties



* Test method: JIS C 2330 (dimensions of samples: 15 mm x 250 mm; marker interval: 100 mm; tensile speed: 200 mm/min)
 * None of the above data represents standard values.

Quality and Environment

Shin-Etsu Film Takefu plant acquired certification of ISO 9001 in 2003 and ISO 14001 in 2007.

We serve and contribute to customers all over the world.



ISO 9001, ISO 14001
Shin-Etsu Film Takefu plant
JCQA-1313
JCQA-E-0812



Contact Shin-Etsu Film for information about our wrapping films.

Shin-Etsu Film Co., Ltd.

Stage Uchikanda, 3-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo, 101-0047, Japan

TEL +81-3-3259-1061 FAX +81-3-3259-1064

<http://www.shinetsu-film.co.jp>

- The data presented in this catalog may not be relied upon to represent standard values. Shin-Etsu reserves the right to change the data and information in this catalog without notice.