



Product Information

Coating powder

NEOFLON™ ETFE Coating Powder

NEOFLON ETFE coating powder is a copolymer of tetrafluoroethylene and ethylene, with extremely easy workability and flexibility, as well as outstanding electric and chemical properties.

In particular, it excels not only in mechanical strength (flexion life), but also in chemical, thermal, and electrical properties, usable in various environments.

NEOFLON ETFE coating powder can meet a wide range of needs in various fields by using a heat resistant primer with high cohesiveness.

1.Product Number

Products of ETFE coating powders

Product No.	Appearance	Particle diameter (μm)	Apparent density (g/ml)	MFR (g/10min)	Appearance of coating film	Processing method	Applicable film thickness (μm)	Characteristics
EC-6510	White powder	40~110	0.65~0.95	6~20	Clear	Electrostatic coating	300~2000	For thick film
EC-6515	Green powder	15~110	0.55~0.95	6~20	Green	Electrostatic coating	300~2000	For thick film
EC-6516	Blue powder	15~100	0.55~0.95	6~20	Blue	Electrostatic coating	300~2000	For thick film
EC-6519	Black powder	15~110	0.55~0.95	6~20	Black	Electrostatic coating	300~2000	For thick film
EC-6520	White powder	15~55	0.55~0.95	6~20	Clear	Electrostatic coating	100~300	For thin film
EC-6820	White powder	150~270	0.70~1.00	19~36	Clear	Rotational molding	500~5000	High purity type

Product No. of primer for ETFE coating powder

Product No.	Appearance of coating	Viscosity (cP at 25°C)	Solid content (mass%)	pH	Specific gravity of coating	Processing method	Applicable film thickness (μm)	Remarks
EPW-1609BK	Black liquid	200~400	38~44	6.5~8.5	1.0~1.3	Spray coating	10~60	Non-hazardous

2.Characteristics

2-1 Characteristics of the powder

Items	Measuring condition	Unit	For electrostatic coating	For rotational molding
Apparent density	Complies with JIS K6891	g/ml	0.65~0.95	0.70~1.00
Average particle size	Laser diffractometry	μm	40~80	200~300
Melting point	DSC	°C	216~230	213~227
MFR	Temperature 297°C-Loading 5kg	g/10min	6~20	20~35

2-2 Characteristics of the coating film

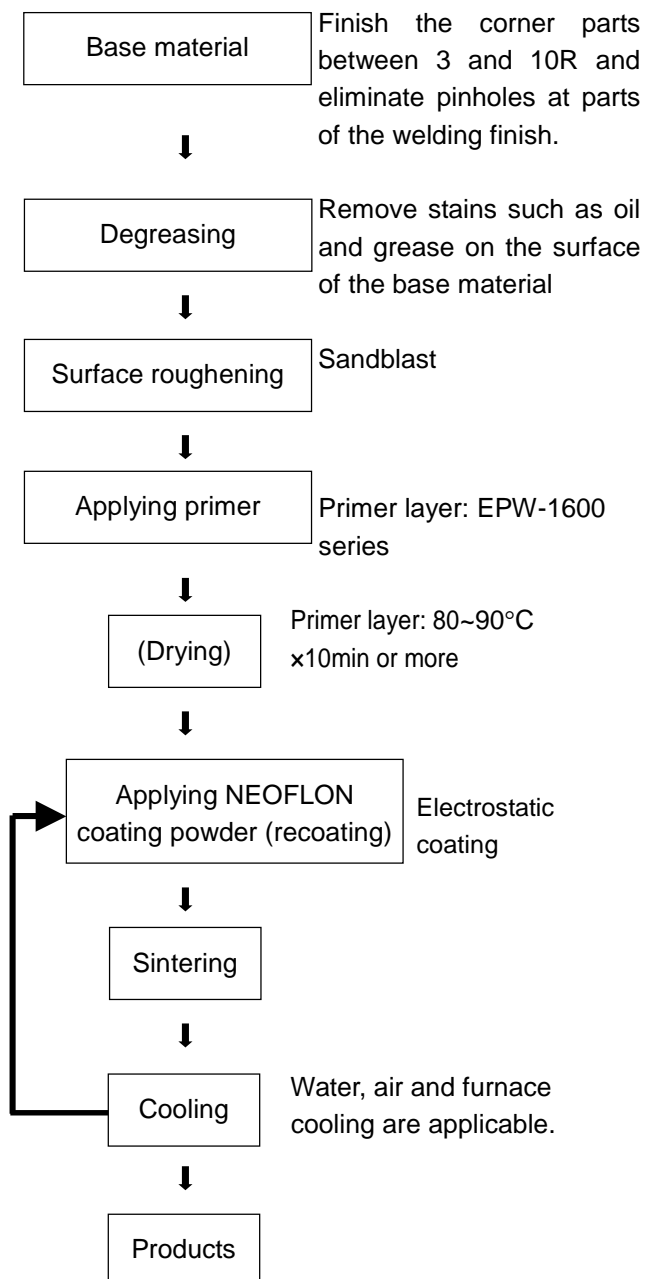
Items	ASTM test	Measuring condition	Unit	For electrostatic coating	For rotational molding
Surface roughness (Ra)	-	Film thickness 300μm	μm	0.03	0.03
Gloss value	-	60 /60 reflection coefficient	%	60~70	60~70
Nonflammability	D2863	Critical oxygen index	%	50	50
Tensile strength	D638	23°C	MPa	30	37
Elongation	D638	23°C	%	400	400
Bending life	D2176-69	-	Times	500000	60000

3.Processing

3-1 Coatings

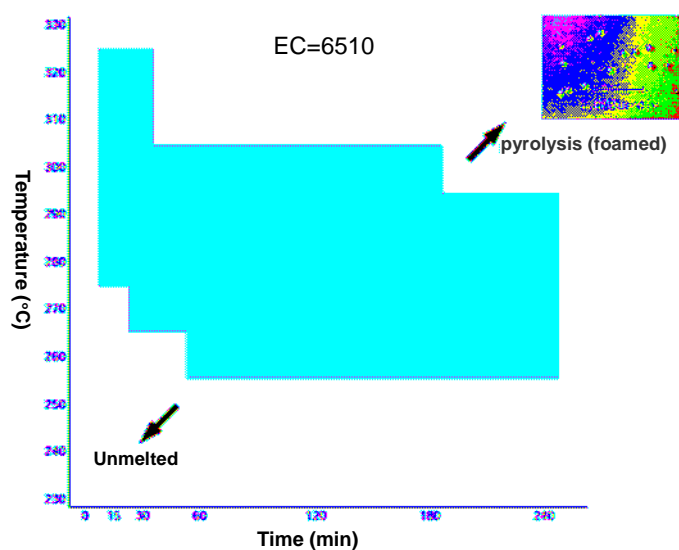
NEOFロン coating powder can be applied with using the same equipment as general powder coatings, including such as electrostatic coating and rotational molding.

(1) Procedure of NEOFロン powder coating [For electrostatic coating]



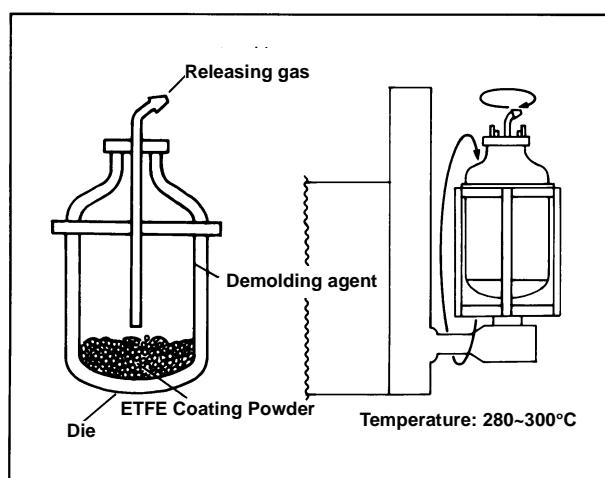
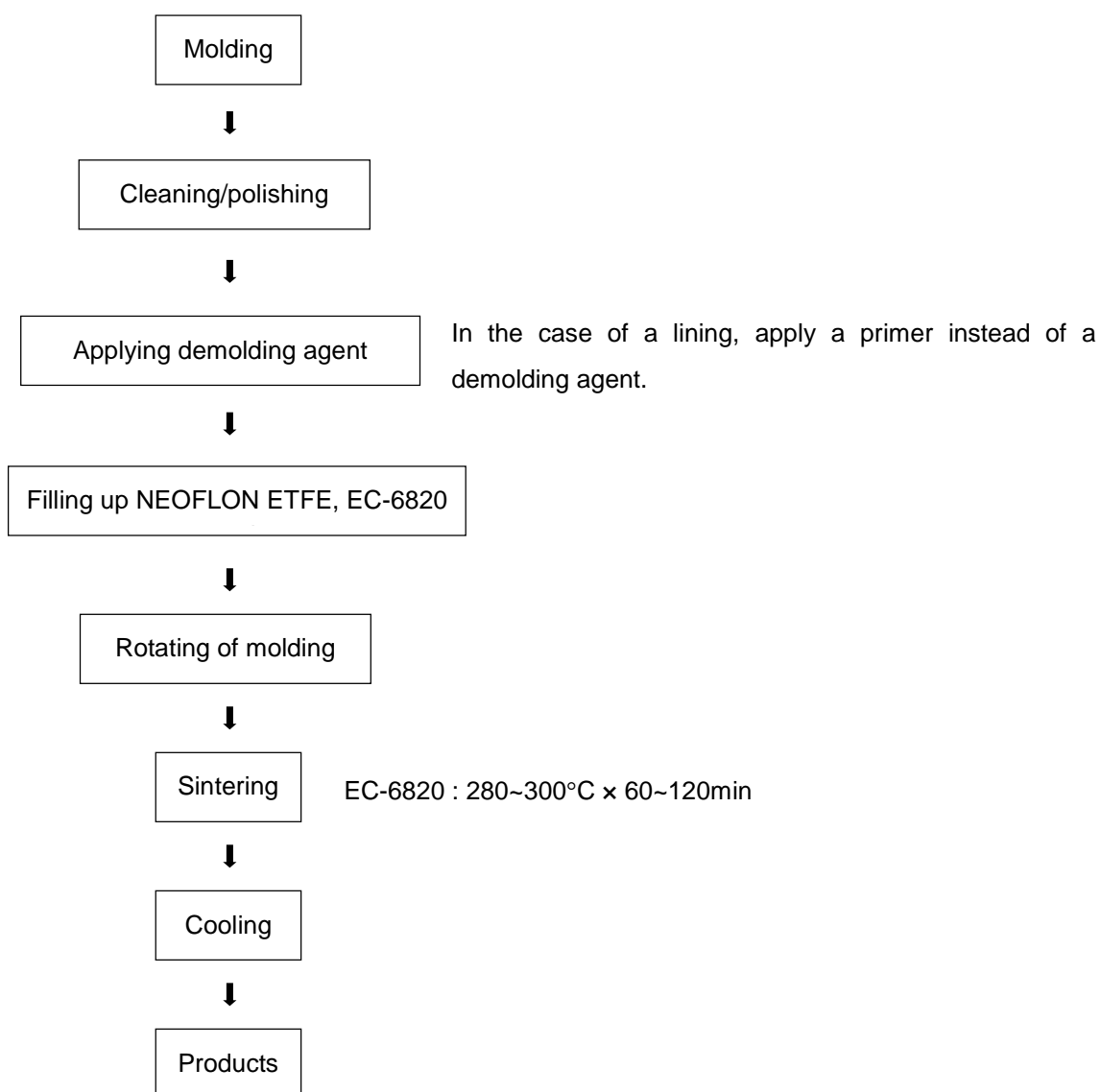
Equipment for electrostatic coating

As NEOFロン ETFE coating powder can be sintered a wide temperature range, you can easily make the coating product.



Applicable sintering range

3-2 Procedure of NEOFロン powder coating [For rotational molding]



4. Handling instructions

- (1) Please wear glasses, gloves, and masks while handling agents.
- (2) During sintering powders, or at sites places where the resin temperature is high (PTFE, PFA=260°C, FEP=205°C, ETFE=150°C), please ensure good ventilation as well as installing local ventilation equipment. In case any person inhales fumes generated during sintering, this may result in polymer fume fever, which has symptoms similar to a cold. Please control to ensure the temperature of the resin does not exceed a high level (PTFE, PFA=380°C, FEP=360°C, ETFE=310°C) during sintering. If the temperature rises excessively, thermal cracking will increase, which may generate hydrogen fluoride.
- (3) Please avoid smoking at the work site as you may inhale hazardous gases if smoking a cigarette coated in NEOFLON coating powder. Wash your face and hands after processing work to ensure any cigarette is not exposed to the powder coating.
- (4) If you dispose of NEOFLON coating powder, avoid discarding into the sewage, and store in a specific container for disposal. For this purpose, make consignment contact with an industrial waste management company in order to consign the disposal.

5. Packaging

NEOFLON ETFE EC-6000 series Container: Packing case, Weight: 10kg

NEOFLON ETFE Primer EPW-1600 Series Container: Polyethylene bottle, Weight: 10kg

- The products described in this material are supplied for use by general industry, not designed and manufactured for medical purposes. Their adequacy and safety for medical use has not been tested, and cannot be assured by our company. With this in mind, for medical use, you must judge the applicability of use for medical purpose yourself based on testing, the views of medical experts, and legal restrictions of the authorities concerned. Also, if you use products for such purposes, we will only provide them if you consent to the conditions and contents of the contracts which we offer.
- The data released in this material represent one example of the actual value, and the example of usage written in this material does not guarantee the results of application of this product for such usage.

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