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## PTFE Molding Powder

### Main Technical Properties

	FT-4TM	FT-4TN-S
Appearance	White powder, no impurities	
Tensile strength (Mpa)	≥36	≥35.0
Elongation at break %	≥320	≥320
Bulk density (g/L)	300-450	300-550
Average particle size (μm)	30±5	
S.S.G.	2.13-2.19	
Melting point (°C)	327±5	
Thermal instability index	≤30 (°C)	
Electric strength (MV/m)	≥100	≥80
Processing	Molding	
Application	Film, rod, tube, sheet, sealing material	
Packing	Sealed in PVC bags, packed in paper barrel.	

### Packing, Storage & Transportation

- Packed with sealed PVC bag, load in waterproof paper barrel. The net weight is 20±0.1kg per barrel.
- Not classified as hazardous for transport. During transportation and storage, avoid heavy shaking, and prevent from heating.
- It should be stocked in clean, cool and dry warehouse, prevent from agglomeration and contamination.



## PTFE medium-size particle resin

### Main Technical Properties

	FT-G90	FT-G120
Appearance	White powder, no impurities	White powder, no impurities
Tensile strength, Mpa	≥25.5	≥25.5
Elongation at break, %≥	250	250
Bulk density, g/L	500±100	500±100
Average size, d50 μ m	60-100	101-200
Moisture, % ≤	0.03	0.03
Melting point, °C	327±5	327±5
Standard relative density	2.13-2.18	2.13-2.18
Thermal Instability Index, ≤	50	50
Electric intensity, MV/m ≥	60	60
Product characters:	1. The partial size is uniform, suitable for skived molding big plate and turning film.  2. G-90 can replace some products of molding powder, and has good brightness in the appearance	The partial size is uniform, suitable for skived molding big plate and turning film.
Application	Make tube, rod, plate and seal material, etc.	Make tube, rod, plate and seal material, etc.

### Packing, Storage & Transportation

- Packed with sealed PVC bag, load in Melting peak temperature proof paper barrel. The net weight is 20kg per barrel.
- Not classified as hazardous for transport. During transportation and storage, avoid heavy shaking, and prevent from heating. It is better to load in refrigerator during transportation.
- It should stock in clean, cool and dry warehouse, prevent from agglomeration and contamination.



## PTFE Free Flow (Pelletized) Resin

### Main Technical Properties

	FT-4A2	FT-4A3
Appearance	White powder, no impurities	
Tensile strength, Mpa $\geq$	22.5	22.5
Elongation at break, % $\geq$	275	275
Bulk density, g/L	750 $\pm$ 150	750 $\pm$ 150
Average particle size, $\mu$ m	401-600	601-900
Water content, % $\leq$	0.02	0.02
Melting point, $^{\circ}$ C	327 $\pm$ 5	327 $\pm$ 5
S.S.G	2.13 ~ 2.19	2.13 ~ 2.19
Thermal instability index, $\leq$	30	30
Characters	Can make multi-angle automatic molding products.	The partial size is round and has good fluidity. It can mix with other resin.
Application	Make molding rod, tube, plate, suitable for automatic extrusion.	Make molding rod, tube, plate, can use as engineering plastic additive.

### Packing, Storage & Transportation

- Packed with sealed PVC bag, load in Water content proof paper barrel. The net weight is (25  $\pm$  0.1) kg per barrel.
- Not classified as hazardous for transport. During transportation and storage, avoid heavy shaking, and prevent from heating.
- It should stock in clean, cool and dry warehouse, prevent from agglomeration and contamination.



## PTFE Fine Powder

### Main Technical Properties

	FT-4D	FT-4DL
Appearance	White loose powder	
Tensile strength, Mpa $\geq$	28	25
Elongation at Break, % $\geq$	350	350
Average particle size, $\mu$ m	450-650	400-600
Bulk density g/L	475 $\pm$ 100	475 $\pm$ 100
Standard specific gravity	2.14-2.185	2.14-2.19
Water content % $\leq$	0.04	0.04
Reduction Ratio (RR)	400:1	400:1
Characters	1. Has high tensile strength, can make medium-high density seal tape. 2. PTFE tube.	1. Has high tensile strength, make low-medium density seal tape. 2. White extruded tube and Rod.
Application	Make extruded tube, rod, and medium-high density seal tape.	Make extruded tube, rod, sheet, and low-medium density seal tape.

### Packing, Storage & Transportation

- Packed with sealed PVC bag, load in Melting peak temperature proof paper barrel. The net weight is 20kg per barrel.
- Not classified as hazardous for transport. During transportation and storage, avoid heavy shaking, and prevent from heating. It is better to load in refrigerator during transportation.
- It should stock in clean, cool and dry warehouse, prevent from agglomeration and contamination.



## PTFE Dispersion

### Main Technical Properties

Grade Item	FT-4DC-A	FT-4DC-D
Appearance	White liquid	White liquid
PTFE content %	60±2	60±2
Surfactant %	4.0-7.0	4.0-7.0
PH	8-10	8-10
Viscosity, x10 <sup>-3</sup> Pa.s	20-40	20-40
Characters	1. Good stability, suitable for any mixing process. 2. High molecular weight and suitable for high temperature cooling process, to improve the appearance.	1. Good wetting performance, especially for impregnation of glass fiber. 2. Good dispersion performance, can mix with other dispersion
Application	Anti-sticky coating for cooking ware etc.	Impregnation of fabric, asbestos, fiber glass and different kinds of packing.

### Packing, Storage & Transportation

- Packed in plastic drum with 25kg wet weight or 1250kg wet weight in IBC container.
- Not classified as hazardous for transport. During transportation and storage, avoid heavy shaking, high temperature and below 0 °C
- After three months, shaking the drum every week to avoid the deposition.

## PTFE Micro Powder

PTFE micro powder is the micron-sized PTFE white powder which has low molecular weight range 10000~30000. It can be used as an additive to mix the materials with plastics and elastomers. The use of PTFE micro powder can reduce the friction coefficient of lubricant oils and greases, and extend the life time of lubricants. It could also be used as a release agent to disperse in organic solvents.

PTFE micro powder could also be used in electrostatic coating process to prepare anti-corrosive coating.

### Main Technical Properties

Properties	Index
Whiteness (% ≥)	95
Average Particle Size (μm)	3~12
Specific Surface Area (m <sup>2</sup> /g)	0.8-3
Moisture Content (% ≤)	0.03
Relative Density (g/ cm <sup>3</sup> )	2.10-2.40
Bulk Density (g/l)	225-600
Melting Point (°C)	325 ± 5

### Main Application:

- (1) Electrostatic coating.
- (2) It can be added to the resin as additive, such as PA, POM, PBT, PC/ABS, HIPS.
- (3) It can improve wear resistance and prevent scratching the material surface. It can increase the slipping property and reduce friction, noise and adhesive ability between the materials.
- (4) It can also be used for painting, lubricant oil, and paraffin to enhance scratch resistance and rub resistance etc.

### Packing and Storage:

- Packed with sealed PVC bag, load in Water content proof paper barrel. The net weight is 20kg per barrel.
- Stock in clean, cool and dry warehouse, prevent from agglomeration and contamination.