
ETFE powder

Product Description

Ethylene-tetrafluoroethylene, also known as ETFE, is one of the strongest fluorine plastics with good mechanical properties, weather resistance, flame retardant, gas barrier properties and chemical resistance. In addition to the similar properties like other fluorine resins, it also shows good radiation resistance, strong adhesion with metal surface, and is lighter than other fluorinated materials. ETFE can be divided into three forms: powder, liquid and particle,. Which can be processed by spraying, rolling coating, extrusion, injection molding and other processing technologies. Moulding parts includes lining, thin film, tube, wire, etc, and can be widely applied in chemical industry , agriculture, architecture, electronics, automobile and so on.

Grades of ETFE Powder

Type	Grade	Characteristic
Thin Coating	ETFE 4051	White powder, suitable for 100-500μm solid color coating
	ETFE 4051BK	Black powder, suitable for 100-500μm black coating
	ETFE 4051WT	White powder, suitable for 100-500μm white coating
	ETFE 4051GN1	Green powder, suitable for 100-500μm dark green coating
	ETFE 4051GN2	Green powder, suitable for 100-500μm bright green coating
Thick Coating	ETFE 405	White powder, suitable for 500-1000μm solid color coating
	ETFE 405BK	Black powder, suitable for 500-1000μm black coating
	ETFE 405WT	White powder, suitable for 500-1000μm white coating
	ETFE 405GN1	Green powder, suitable for 500-1000μm dark green coating
	ETFE 405GN2	Green powder, suitable for 500-1000μm bright green coating
Anti static Paint	ETFE 40AS	Black powder, suitable for 100-1000μm black, anti static coating.
Rotating Rotomolding	ETFE 406	White powder, rotary rolling, suitable for 2000-8000μm pure color coating

Properties of ETFE Powder

Property	Unit	Test Method/ Standards	Surface Coating Series	Rotating Rotomolding
Apparent density	g/ml	---	≥ 0.6	≥ 0.7
Average particle size	um	Laser Particle Size Analyzer	40-90	200-500
Melting point	°C	DSC	220-230	220-230
MFR	g/10min	ASTM D3159(297°C *49N)	15-20	20-30
Tensile strength	Mpa	HG/T 2904-1997	≥ 30	≥ 30
Elongation	%	HG/T 2904-1997	≥ 300	≥ 300
Surface Resistance	Ω	Surface Resistance Detector	10^4 - 10^{10} (Anti static Coating)	---

Packing

1. ETFE powder product, double-layered polyethylene sealed and then packed in carton. 10Kg/bag, 20Kg/carton,

Notes

1. When dealing with ETFE powder for deep processing, operators must wear protective cloth and mask to avoid potential safety hazards, such as inhalation of dust and toxic gas, or hurt by high temperature. No open flame and smoking in workplace. Exhaust devices should be installed.
2. Once opened, unused product should be repacked to avoid any dust or contamination.
3. The product should be stored in cool ventilated place and away from fire source and heat source.
4. It should also be prevented against sunlight and moisture, kept in upright position and handled with great care.
5. Product waste must be handled properly following local laws and regulations.

ETFE Anti static Coating

Product Description

Ethylene-tetrafluoroethylene, also known as ETFE, is one of the strongest fluorine plastics with good mechanical properties, weather resistance, flame retardant, gas barrier properties and chemical resistance. In addition to the similar properties like other fluorine resins, it also shows good radiation resistance, strong adhesion with metal surface, and is lighter than other fluorinated materials. ETFE products are divided into three forms: powder, liquid and particle, which can be processed by spraying, rolling coating, extrusion, injection molding and other processing technologies. Moulding parts includes lining, thin film, tube, wires, etc. and can be widely applied in chemical industry, agriculture, architecture, electronics, automobile and so on.

In recent years, with the rapid development of petrochemical industry, electronic industry, the harm of static electricity and corrosion is more and more obvious, so the anti static and anti corrosive coatings have been paid more and more attention. Anti static and anti corrosive coatings need not only excellent corrosion resistance, but also good anti-static performance. Based on this, Starget has launched both anti-corrosive and anti-static performance of ETFE anti-static products. At present, Anti-static product brand is ETFE 40AS, this coating not only has the excellent performance of ETFE coating, but also has Excellent anti-static performance, coating surface resistance range of 10^4 - $10^{10}\Omega$.

Technical Indicators of anti-static coating ETFE 40AS

Subject	Unit	Property
Product Appearance	---	Black Powder
MFR	G/10min	15-25
Average Particle Size	μm	40-90
Tensile Strength	Mpa	≥ 25
Elongation	%	≥ 300
Melting Point	$^{\circ}\text{C}$	220-230
Bulk Density	g/ml	≥ 0.6
Surface Resistance	Ω	10^4 - 10^{10}

Packaging

ETFE anti-static products, double-layered polyethylene sealed and then packed in carton.
20KG/carton.

Notes

- 1)When dealing with ETFE powder for deep processing, operators must wear protective cloth and mask to avoid potential safety hazards, such as inhalation of dust and toxic gas, or hurt by high temperature. No open flame and smoking in workplace. Exhaust devices should be installed.
- 2)Once opened, unused product should be repacked to avoid any dust or contamination.
- 3) The product should be stored in cool ventilated place and away from fire source and heat source.
- 4)It should also be prevented against sunlight and moisture, kept in upright position and handled with great care.
- 5)Primer product , After a long period of time, the effect of shaking before starting is better.
- 6)Product waste must be handled properly following local laws and regulations.