HAIFLON® ETFE Resin HE-408

CAS No.: 25038-71-5

Haiflon® ETFE is a copolymer of ethylene and tetrafluoroethylene — a fluorine-based thermoplastic designed for high corrosion resistance and high mechanical strength over a wide temperature range. It combines the excellent chemical resistance, electrical properties and toughness of fluoropolymers with easy melt processing by extrusion, injection molding, blow molding and rotational molding, and is widely used for wire and cable insulation, tubes, films, linings and corrosion-resistant coatings.

Product Features

- Low melt flow grade with excellent stress-crack resistance
- Highest mechanical strength and toughness in the range
- Suitable for extrusion, injection molding and transfer molding
- Long-term service temperature from -100 ℃ up to +150 ℃

Typical Physical Properties

Item	Specification — HE-408
Appearance	Translucent pellets
Form / main process	Pellets
Melt flow rate, g/10min (297 ℃, 5 kg)	3.9 – 8.0
Tensile strength, MPa	≥ 38
Elongation at break, %	≥ 340
Melting point, ℃	250
Specific gravity, g/cm³ (typical)	1.68 – 1.72

Melt flow rate tested at 297 ℃ under 5 kg load (ASTM D1238).

Applications

- Thick-wall clad wires, films, tubes and sheets
- Lining materials of valves, pumps and containers
- Parts requiring outstanding stress-crack resistance

Comparable Grades

Pureflon ET-406

Processing Guidelines

Haiflon® ETFE is fabricated by the same melt processing techniques normally used for other thermoplastics. Drying is recommended before processing (e.g. 2 – 4 h at 100 – 150 ℃). All parts of the processing equipment that come into contact with the molten resin must be made of corrosion-resistant alloys. For wire and cable extrusion, the temperature profile should be selected according to extruder size and line speed.

Safety Precautions

- Processing temperatures above 300 ℃ may release harmful fumes. Keep the work area well ventilated and never allow the resin to overheat or
- decompose in the barrel.
- Do not smoke while handling or processing ETFE.
- Read the safety data sheet carefully before use.

Storage & Handling

- Store in a clean, cool, dry warehouse, protected from dust and contamination.
- This product is non-toxic, non-explosive and non-corrosive, and is transported as a non-dangerous goods.
- Keep containers tightly closed and away from direct sunlight and moisture.

Packing

- Packed in polyethylene bags, 25 kg net weight per bag or carton.
- Custom packing is available on request.

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