HAIFLON® FEP SQ-1216 Extrusion Resin (Virgin Pellets)

CAS No.: 25067-11-2

Haiflon® FEP SQ-1216 is a virgin FEP resin supplied as translucent clean pellets with a melt flow rate of 12.1 – 16.0 g/10 min. Designed for high-speed extrusion lines, it delivers thin, uniform insulation coatings at high line speeds with good mechanical and electrical properties.

Product Features

- Melt flow rate 12.1 – 16.0 g/10 min for high-speed extrusion
- Good resistance to stress cracking
- Thin, uniform insulation walls at high line speeds
- Excellent electrical insulation and chemical resistance
- Low dielectric loss (≤ 4.0×10^{-4}) for signal transmission cables

Typical Physical Properties

Item	Specification — SQ-1216
Appearance	Translucent clean pellets, no visible impurities
Melt flow rate (MFR), g/10 min	12.1 – 16.0
Tensile strength, MPa	≥ 20
Elongation at break, %	≥ 300
Melting point, °C	265 ± 10
Specific gravity	2.12 – 2.17
Volatile content, %	≤ 0.10
Resistance to stress cracking	Good
Volume resistivity, Ω·cm	≥ 1×10^{16}
Dielectric strength, kV/mm	20 – 24
Dielectric constant	2.10
Dielectric dissipation factor	≤ 4.0×10^{-4}

Applications

- High-speed extrusion of wire insulation
- Thin-wall insulated wires and cables
- Data and signal transmission cables
- Injection-molded thin-wall parts

Comparable Grades

Daikin Neoflon NP-107 (15.6 – 20)

Safety Precautions for Using FEP Resins

- FEP resins are not hazardous for transport and are not classified as dangerous goods. Please refer to the Safety Data Sheet (SDS) before use.
- When heated above 400 °C, small amounts of decomposition products (hydrogen fluoride, carbonyl fluoride) may be liberated. Ventilate the processing area and avoid inhaling fumes.
- Avoid breathing dust and wear suitable personal protective equipment (dust mask, gloves) during handling.
- Smoking in the work area is prohibited, since tobacco may be contaminated by polymer particles and generate harmful decomposition products when lit.

Storage & Handling

- Store in a clean, cool and dry warehouse, away from heat sources and direct sunlight.
- Keep packages sealed to prevent contamination and moisture uptake; avoid severe vibration and shock during transportation and storage.
- If necessary, dry the pellets at 100 – 120 °C for 2 – 4 h before processing.

Packing

- Packed in a sealed PE inner bag in a waterproof paper drum; net weight 25 ± 0.1 kg per drum.
- Other packings are available on request.

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