HAIFLON® FEP SQ-408 Extrusion Resin (Virgin Pellets)

CAS No.: 25067-11-2

Haiflon® FEP SQ-408 is a general-purpose virgin FEP resin supplied as translucent clean pellets with a melt flow rate of 4.1 – 8.0 g/10 min. It balances extrusion speed, mechanical strength and stress-crack resistance, and is the standard grade for general wire and cable insulation as well as extruded tubing.

Product Features

- General-purpose melt flow rate 4.1 – 8.0 g/10 min
- Very good resistance to stress cracking
- High tensile strength (≥ 24 MPa) and elongation (≥ 300 %)
- Excellent electrical insulation and chemical resistance
- Suitable for wire insulation and tubing by single-screw extrusion

Typical Physical Properties

Item	Specification — SQ-408
Appearance	Translucent clean pellets, no visible impurities
Melt flow rate (MFR), g/10 min	4.1 – 8.0
Tensile strength, MPa	≥ 24
Elongation at break, %	≥ 300
Melting point, °C	265 ± 10
Specific gravity	2.12 – 2.17
Volatile content, %	≤ 0.10
Resistance to stress cracking	Excellent
Volume resistivity, Ω·cm	≥ 1×10^{16}
Dielectric strength, kV/mm	20 – 24
Dielectric constant	2.10
Dielectric dissipation factor	≤ 3.0×10^{-4}

Applications

- General-purpose wire and cable insulation
- Extruded tubing, pipes and profiles
- Wire-wrap and hook-up wires
- Cable jacketing for chemical plants

Comparable Grades

Daikin Neoflon NP-20 (4.5 – 8.5); Chemours Teflon™ FEP 100

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.

Shanghai Fluorochem Industry Co.,Ltd
Office Address: 2nd floor, No. 310 Yichuan Road,
Shanghai 200065, China
Tel: +86 21 565 11032
E–mail: info@haiflon.com
www.haiflon.com