HAIFLON® FEP SQ-814M Modified Extrusion Resin (Anti-Stress-Cracking)

CAS No.: 25067-11-2

Haiflon® FEP SQ-814M is a modified FEP resin supplied as translucent clean pellets with a melt flow rate of 8.1 – 14 g/10 min. The modification gives the resin excellent resistance to stress cracking together with good processability, making it ideal for thin-wall wire insulation, tubing and injection-molded parts used in aggressive chemical or flexing service.

Product Features

- Modified FEP with excellent resistance to stress cracking
- Melt flow rate 8.1 – 14 g/10 min — good processability
- Suitable for thin-wall insulation and fast extrusion
- Good electrical insulation and chemical resistance
- Long service life in flexing and chemical environments

Typical Physical Properties

Item	Specification — SQ-814M
Appearance	Translucent clean pellets, no visible impurities
Melt flow rate (MFR), g/10 min	8.1 – 14
Tensile strength, MPa	≥ 24
Elongation at break, %	≥ 300
Melting point, °C	255 – 265
Specific gravity	2.13 – 2.19
Volatile content, %	≤ 0.10
Resistance to stress cracking	Excellent

Applications

- Thin-wall wire insulation requiring high stress-crack resistance
- Tubing and profiles for aggressive chemical service
- Injection-molded parts subject to flexing
- Cable jacketing for oil and chemical environments

Comparable Grades

Comparable international grades available on request.

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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