HAIFLON® FEP SQ-1824M Modified Extrusion Resin (Anti-Stress-Cracking)

CAS No.: 25067-11-2

Haiflon® FEP SQ-1824M is a modified FEP resin supplied as translucent clean pellets with a melt flow rate of 18.1 – 24 g/10 min. It combines excellent resistance to stress cracking with high flow, and is designed for high-speed extrusion of thin-wall wire insulation and injection molding of thin-wall parts in demanding service.

Product Features

- Modified FEP with excellent resistance to stress cracking
- Melt flow rate 18.1 – 24 g/10 min for high-speed processing
- Uniform thin-wall coatings at high line speeds
- Good electrical insulation and chemical resistance
- Reliable performance in flexing and chemical environments

Typical Physical Properties

Item	Specification — SQ-1824M
Appearance	Translucent clean pellets, no visible impurities
Melt flow rate (MFR), g/10 min	18.1 – 24
Tensile strength, MPa	≥ 20
Elongation at break, %	≥ 280
Melting point, °C	255 – 265
Specific gravity	2.13 – 2.19
Volatile content, %	≤ 0.10
Resistance to stress cracking	Excellent

Applications

- High-speed extrusion of stress-crack resistant wire insulation
- Thin-wall tubing for chemical and flexing service
- Injection-molded thin-wall parts
- Automotive and appliance wire insulation

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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