

HAIFLON® PTFE SG-340M Free Flow Resin (Pelletized, Modified)

CAS No.: 9002-84-0

Haiflon® PTFE SG-340M is a chemically modified free flow (pelletized) resin combining the flow advantages of a granular grade — uniform particle size, high bulk density and automatic mold filling — with the benefits of modified PTFE: weldability, reduced deformation under load, increased permeation resistance and higher dielectric breakdown strength.

Product Features

- ✧ Chemically modified pelletized free-flow grade, average particle size 300 – 400 μm
- ✧ High bulk density (750 ± 150 g/l) and excellent flowability
- ✧ Weldable; reduced deformation under load and minimal sagging in large billets
- ✧ Increased resistance to chemical permeation; higher dielectric breakdown strength
- ✧ Designed for automatic molding; food-contact capable when properly processed

Typical Physical Properties

Item	Specification — SG-340M
Appearance	White powder, no visible impurities
Tensile strength, MPa	≥ 25
Elongation at break, %	≥ 300
Bulk density, g/l	750 ± 150
Average particle size, D50 μm	300 – 400
Moisture content, %	≤ 0.02
Standard specific gravity (SSG)	2.13 – 2.19
Melting peak temperature, $^{\circ}\text{C}$	327 ± 5
Thermal instability index (TII)	≤ 30

Applications

- ✧ Automatic, compression and isostatic molding of rods, tubes, sheets and billets
- ✧ Welded linings and fluid-handling components joined to PFA or PTFE
- ✧ Gaskets, seals and linings requiring chemical permeation resistance

Comparable Grades

Chemours Teflon NXT 85 (modified, pelletized)

Safety Precautions for Using PTFE Resins

- ✧ PTFE resins are not hazardous for transport and are not classified as dangerous goods.
- ✧ When heated above 260°C , minor amounts of decomposition products may be liberated. Ovens, processing equipment and the work area must be adequately ventilated, and inhalation of fumes must be avoided.
- ✧ 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.
- ✧ Please refer to the Safety Data Sheet (SDS) before use.

Storage & Handling

- ✧ Store in a clean, cool and dry warehouse, away from heat sources and direct sunlight.
- ✧ Avoid severe vibration, shock and heating during transportation and storage — granular powders tend to form agglomerates.
- ✧ If agglomerates form, keep the powder below 15°C for about two days, sift through a coarse screen and allow to return to room temperature before molding.
- ✧ Keep packages sealed to prevent contamination and moisture uptake.

Packing

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