

Hyflon® PFA P7010

Perfluoroalkoxy

Solvay Specialty Polymers

Technical Data

Product Description

Hyflon® PFA P7010 is a clear, semi-crystalline melt processable perfluorinated resin. It is designed for electrostatic powder coatings and is particularly recommended for use as a topcoat in antistick applications.

Hyflon® PFA P7010 exhibits very low surface energy, very low coefficient of friction and excellent thermal and flame resistance. Additionally, Hyflon® PFA P7010 coatings show excellent smooth surface finish, outstanding antistick behaviour and can maintain performance over a wide temperature range.

Main features of Hyflon® PFA P7010 include:

- Very low surface energy
- Excellent antistick behaviour
- Very low coefficient of friction
- Very good surface finish
- Outstanding thermal resistance

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet		
Search for UL Yellow Card	• Solvay Specialty Polymers • Hyflon® PFA		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Features	• Good Surface Finish • Good Thermal Stability	• Low Friction • Semi Crystalline	
Uses	• Coating Applications		
Appearance	• Clear/Transparent		
Forms	• Powder		
Processing Method	• Coating		

Physical	Nominal Value Unit	Test Method
Specific Gravity	2.15 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	10 to 17 g/10 min	ASTM D1238
Average Particle Size ³	25 µm	Internal Method
Thermal	Nominal Value Unit	Test Method
Melting Temperature	300 to 310 °C	ASTM D4591

Additional Information

Processing

- Hyflon® PFA P7010 is intended as a topcoat material to apply to primed substrates. It can be processed using normal electrostatic powder coating techniques. Generally the procedure involves substrate preparation, coating, baking and cooling.
- Hyflon® PFA P7010 can be used neat and without any further formulation. Several passes may be required to obtain the desired PFA load and build up coating thickness without defects.
- Substrate preparation, gun parameters such as voltage and both oven temperature and time must all be well controlled to achieve defect free coated items.

Storage and Handling

- Hyflon® melt processable fluoropolymer resins can be stored without shelf life issues when kept in a clean and dry area at ambient temperatures. Opened containers should be tightly resealed to prevent any contamination.

Safety and Toxicology

- Before using Hyflon® melt processable fluoropolymer resins consult the product Material Safety Data Sheet and follow all label directions and handling precautions.
- As with all fluoropolymer materials, handling and processing should only be carried out in well ventilated areas. Vapor extractor units should be installed above processing equipment. Fumes must not be inhaled and eye and skin contact ought to be avoided. In case of skin contact wash with soap and water. In case of eye contact flush with water immediately and seek medical help. Do not smoke in areas contaminated with powder, vapor or fumes.
- See Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging

- Hyflon® PFA P7010 is packaged in 10kg non returnable drums. Each drum has two bags liner made of polyethylene resin.