

Hyflon® PFA P7310

Perfluoroalkoxy

Solvay Specialty Polymers

Message:

Hyflon® PFA P7310 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 P7310 exhibits very low surface energy, very low coefficient of friction and excellent thermal and flame resistance. Additionally Hyflon® PFA P7310 coatings show excellent smooth surface finish, outstanding antistick behaviour and can maintain performance over a wide temperature range.

Main features of Hyflon® PFA P7310 include:

Very low surface energy

Excellent antistick behaviour

Very low coefficient of friction

Very good surface finish

Outstanding thermal resistance

General Information			
Features	Semicrystallization		
	Low friction coefficient		
	Thermal stability, good		
	Excellent appearance		
Uses	Coating application		
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 - 17	g/10 min	ASTM D1238
Average Particle Size ¹	25	µm	Internal method
Volume density	800	g/l	ASTM D1895
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	300 - 310	°C	ASTM D4591
Additional Information			

Processing

Hyflon® PFA P7310 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 P7310 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 P7310 is packaged in 10kg non returnable drums. Each drum has two bags liner made of polyethylene resin.

NOTE

1. Laser diffraction

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