3M[™] Dyneon[™] Fluoroplastic Dispersion PFA 6910GZ

Features and Benefits

- · Very fine particle size
- Good thermoplastic machinability
- Outstanding soil and dirt repellency
- Excellent UV stability

Note: Data in this document are not for specification purposes.

Typical Properties

Property	Test Method	
Solids Content	ASTM D4441	50% Weight
Density of Dispersion	ASTM D1298	1.10 g/cc
Specific Gravity of Dry Polymer	ASTM D792	2.15 g/cc
Surface Active Ingredients		non-ionic
pH	ASTM E70	9
Melting Point	ASTM D4591	306°C (583°F)
Melt Index 372°C/5 kg	ASTM D1238	15 g/10 min
Particle Size	ISO 13321	90 nm
Viscosity (D=30s ⁻¹)	DIN 54453	9 MPa

Product Description

3M[™] Dyneon[™] PFA 6910GZ is a 50% solids fluorothermoplastic aqueous dispersion. It is a copolymer of tetrafluoroethylene and perfluorinated comonomers, with a melt viscosity several orders of magnitude lower than PTFE.

It can be utilized in coating system formulations and in combination with PTFE dispersions, binding resins and pigments. Due to its small particle size, Dyneon PFA 6910GZ can be utilized for sealing extremely fine-pored substrates.

Processing

PFA 6910GZ is applied by dipping, impregnating or spraying. Melting of the polymer particles and film formation normally occurs between 320°C and 380°C (608°F and 716°F). To avoid blistering, we recommend drying the applied coating at a maximum of 90°C (194°F) prior to processing.

This dispersion can be processed in concentrated or diluted form, utilizing either distilled or demineralized water.

Product Form

PFA 6910GZ is furnished in 40 kg (88 lb) drums.

Storage and Material Handling

This aqueous dispersion must be protected from freezing. It should be stored at temperatures between 5°C and 30°C (41°F and 86°F). Although it has a minimal tendency to settle, it is recommended that PFA 6910GZ dispersion be homogenized every six months by slowly rolling for four hours on a drum roller. Before use, the dispersion must be rolled and filtered with a 100-micrometer filter.

Safety/Toxicology

This is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product label and the Safety Data Sheet and follow all label directions and handling precautions. General handling/processing precautions include: (1) Process only in well-ventilated areas; (2) Do not smoke in areas contaminated with powder/residue from this product; (3) Avoid eye contact; (4) After handling this product wash any contacted skin with soap and water. Potential hazards, including evolution of toxic vapors, can exist if processing occurs under excessively high temperature conditions. Appropriate local exhaust ventilation such as vapor extractor units should be installed above processing equipment. When cleaning processing equipment, do not burn off any of these products with an open flame or in a furnace.



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