

3M™ Dyneon™ Fluoroplastic Granules FEP 6322Z

Features and Benefits

- High extrusion speed
- High thermal stability
- Wide processing window
- Excellent electrical properties
- Excellent low smoke and low flame properties

Typical Properties

Property	Test Method	
Melt Flow Index (372°C/5 kg)	ASTM D1238	22 g/10 min
Specific Gravity	ASTM D792	2.15 g/cm ³
Melting Point	ASTM D4591	255°C (490°F)
Tensile Strength at Break (23°C)	ASTM D638	20 MPA (2,900 psi)
Elongation at Break (23°C)	ASTM D638	300%
Flexural Modulus	ASTM D790	580 MPA (84,000 psi)
Dielectric Strength (5 mil film)	ASTM D149	2.4 kV/mil
Dielectric Constant	ASTM D150	2.15 @ 1kHz (2.15 @ 1MHz)
Dissipation Factor	ASTM D150	<0.0003 kHz (-.0009 MHz)
Vertical Burn (UL94)	UL Bulletin 94	V-0
Limiting Oxygen Index	ASTM D2863	>95%

Product Description

3M™ Dyneon™ Fluoroplastic Granules FEP 6322Z is designed primarily for high-speed extrusion.

Product Form and Packaging

FEP 6322Z is supplied in pellet form. It is packaged in either 25 kg PE bags or 250 kg HDPE drums with a moisture and dust-proof PE liner.

Storage and Material Handling

FEP 6322Z has a 3 year shelf life provided it is stored in a clean, dry place. FEP 6322Z is hydrophobic, and generally does not require drying before processing unless high humidity conditions create surface moisture adsorption.

Safety and Toxicology

This is a fluoroplastic materials, 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 Material Safety Data Sheet. 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 this product with an open flame or in a furnace.

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

Product Stewardship—Replacement Emulsifier: Dyneon™ and Dynamar™ fluoroplastic products identified with a “Z” at the end of the product name indicate products that are made using a replacement emulsifier. This emulsifier, which Dyneon began using in the manufacturing processes for these products in 2008, is a polymerization aid used to manufacture certain fluoropolymers and is not an intended ingredient in the polymers. The new emulsifier eliminates the use of the former polymerization aid, APFO (ammonium perfluorooctanoate, the ammonium salt of perfluorooctanoic acid (PFOA)), in the manufacture of these fluoropolymers. The use of the replacement emulsifier in the manufacture of these products is consistent with our product stewardship principles and our commitment to US EPA’s Voluntary PFOA Stewardship Program under which fluoropolymer manufacturers agreed to work towards eliminating PFOA in emissions and product content by the year 2015. **We are pleased to report that Dyneon completely eliminated the use of APFO in its manufacturing processes in December 2008.**

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