

3M™ Dyneon™ Fluoroplastic Granules FEP 6307R2RZ

Features and Benefits

- Excellent electrical properties
- Excellent low smoke and flame properties
- Contains incorporated foam nucleant

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

Typical Properties

Property	Test Method	
Melt Flow Index (372°C/5 kg)	ASTM D1238	7.5 g/10 min
Specific Gravity	ASTM D792	2.15 g/cm ³
Melting Point	ASTM D4591	260°C (500°F)
Dielectric Constant	ASTM D150	≤2.15 @ 1kHz (≤2.15 @ 1MHz)
Dissipation Factor	ASTM D150	<0.0003 kHz (≤0.0009 MHz)
Limiting Oxygen Index (LOI)	ASTM D2863	>95%

Product Description

3M™ Dyneon™ Fluoroplastic Granules FEP 6307R2RZ is a special version of 3M™ Dyneon™ Fluoroplastic Granules FEP 6307Z with an added nucleating agent for improved foaming in gas injection extrusion processes. As the gas expands and begins to form voids, the added nucleating agent in FEP 6307R2RZ acts as a site for void formation. FEP 6307R2RZ is listed by Underwriters Laboratories as a Plenum Cable Component. FEP 6307R2RZ is ideal for gas injection extrusion of foamed FEP coaxial cable core.

Product Form and Packaging

This product is supplied in pellet form in 550 pound (250 kg) HDPE drums with a moisture and dust-proof liner.

Storage and Material Handling

FEP 6307R2RZ has an unlimited shelf life provided it is stored in a clean, dry place. FEP 6307R2RZ is hydrophobic, and generally does not require drying before processing unless high humidity conditions create surface moisture adsorption.

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 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 vapors, can exist if processing occurs under excessively high temperature conditions. 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.

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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