

3M Advanced Materials Division

3M™ Dyneon™ Fluoroplastic Granules THV 610GZ

Features and Benefits

- Good flexibility
- Transparent in thin film form
- Very good chemical and permeation resistance
- Bondable to itself and other substrates (for multi-layer constructions)
- Low flammability
- Processing profile allows co-processing with other plastics and hydrocarbon elastomers

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

Typical Values

Property	Test Method	THV 610GZ
Melting Point	ASTM D4591	190°C (374°F)
Melt Flow Index 265°C/5 kg	ASTM D1238	10 g/10 min
Specific Gravity	ASTM D792	2.03 g/cm ³
Tensile at Break	ASTM D638 (film)	24 MPa (3,481 psi)
Elongation at Break	ASTM D638	500%
Flexural Modulus	ASTM D790	490 MPa (71,000 psi)
Hardness, Shore D	ASTM D2240	56

Product Description

3M™ Dyneon™ Fluoroplastic Granules THV 610GZ provides a balance of low permeation, thermal stability, and melt processability. It can be used to prepare molded parts and extruded films, tubes, profiles and wire coatings. It is useful for applications that require flexibility and good chemical resistance.

Storage and Material Handling

3M™ Dyneon™ Fluoroplastic THV 610GZ should be stored in a clean, dry place in the original unopened container received from 3M. THV 610GZ is hydrophobic and generally does not require drying before processing unless high humidity conditions create surface moisture.

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. 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. 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.

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