

## 3M Dyneon™ THV 221GZ Fluoroplastic Granules

Category : Polymer , Thermoplastic , Fluoropolymer

### Material Notes:

3M™ Dyneon™ Fluoroplastic Granules THV 221GZ is a flexible, transparent fluoroplastic composed of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride in the form of pellets. It provides a balance of low temperature processing, low flammability, thermal stability, and melt processability. It can be used to prepare extruded films, tubes, profiles, and wire coatings. It is useful for applications that require a high level of flexibility, transparency, low temperature fusion or bonding capability with moderate chemical resistance. Laminated films of this product exhibit excellent weatherability and good anti-soiling properties. This product can be E-beam cured without the need of pro-rads to improve its high temperature capability with minimal loss of flexibility. Process at relatively low temperatures compared to other fluoroplastics and may not require the same level of corrosion resistant equipment as that used with higher melting fluoroplastics. However, it should be remembered that THV is a fluoroplastic and should be treated accordingly.

**Features and Benefits:** Ultra flexible grade of THV Processing profile allows coprocessing with olefinic plastics and hydrocarbon elastomers Excellent chemical and permeation resistance High transparency Low flammability Bondable to itself and other substrates (for multi-layer constructions) E-beam crosslinkable

Information provided by the Dyneon division of 3M.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-THV-221GZ-Fluoroplastic-Granules.php](http://www.lookpolymers.com/polymer_3M-Dyneon-THV-221GZ-Fluoroplastic-Granules.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.93 g/cc	1.93 g/cc	ASTM D792
Melt Flow	20 g/10 min	20 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 265 °C	@Load 11.0 lb, Temperature 509 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	film; ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
Flexural Modulus	0.0800 GPa	11.6 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	115 °C	239 °F	ASTM D4591
Oxygen Index	65 %	65 %	ASTM D2863

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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