

3M Dyneon™ THV 500A Fluorothermoplastic (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer

Material Notes:

THV 500A is a flexible, transparent fluoroplastic composed of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride in the form of an agglomerate. As an agglomerate, it can be used for compounding or compression molding, but this form is generally not used for extrusion or injection molding. It provides a low temperature processing, low flammability, thermal stability, and melt processability. IT can be used to prepare molded parts and extrude films, tubes, profiles, and wire coatings. It is useful for applications that require flexibility, low temperature processing, and good chemical resistance. Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-THV-500A-Fluorothermoplastic-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.98 g/cc	1.98 g/cc	ASTM D792
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 265 °C	10 g/10 min @Load 11.0 lb, Temperature 509 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.0 MPa	4060 psi	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638
Flexural Modulus	0.210 GPa	30.5 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ASTM D4591
Oxygen Index	>= 75 %	>= 75 %	ASTM D2863

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

Descriptive Properties	Value	Comments
Form	Agglomerate	

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