

3M™ Dyneon™ Fluoroplastic THV 415GZ

Fluoroelastomer

3M Advanced Materials Division

Message:

Dyneon™ THV 415G Z Fluorothermoplastic is a flexible, transparent fluoroplastic composed of tetrafluoroethylene, hexafluoropropylene and vinylidene fluoride in the form of pellets or agglomerate. 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. Dyneon™ THV 415G Z Fluorothermoplastic is useful for applications that require flexibility, low temperature processing, and good chemical resistance. It has properties similar to THV 500 Z Fluorothermoplastic, but with a slightly lower melting point. The lower melting point provides more complete and uniform fusing of Dyneon™ THV 415G Z Fluorothermoplastic to itself and other substrates under autoclave temperature conditions used for elastomer curing.

General Information			
Features	Bondability		
	Flame Retardant		
	Good Chemical Resistance		
	Good Flexibility		
	Good Thermal Stability		
	High Clarity		
Uses	Coating Applications		
	Film		
	Profiles		
	Tubing		
	Wire & Cable Applications		
Appearance	Clear/Transparent		
Forms	Agglomerate		
	Pellets		
Processing Method	Film Extrusion		
	Profile Extrusion		
	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.97	g/cm ³	ISO 12086
Melt Mass-Flow Rate (MFR)	15	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	28.0	MPa	ISO 527-1
Tensile Strain (Break)	500	%	ISO 527-1
Flexural Modulus	180	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	155	°C	ISO 12086

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	> 65	%	ASTM D2863

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