

3M™ Dyneon™ Fluoroplastic THV 221GZ

Fluoroelastomer

3M Advanced Materials Division

Message:

Dyneon™ THV 221G Z Fluorothermoplastic 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 the highest level of flexibility, transparency, low temperature fusion or bonding capability with moderate chemical resistance. Laminated film of this product exhibit excellent weatherability and good anti-soiling properties. This product can be E-beam cured without the need of prorads to improve its high temperature capability with minimal loss of flexibility.

General Information			
Features	Bondability		
	Crosslinkable		
	Flame Retardant		
	Good Flexibility		
	Good Thermal Stability		
	Good Weather Resistance		
	High Clarity		
	Weldable		
Uses	Coating Applications		
	Film		
	Laminates		
	Profiles		
	Tubing		
	Wire & Cable Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Film Extrusion		
	Injection Molding		
	Profile Extrusion		
	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.95	g/cm ³	ISO 12086
Melt Mass-Flow Rate (MFR)	20	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	20.0	MPa	ISO 527-1
Tensile Strain (Break)	600	%	ISO 527-1
Flexural Modulus	80.0	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Melting Temperature	120	°C	ISO 12086
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	> 65	%	ASTM D2863
Injection	Nominal Value	Unit	
Nozzle Temperature	200 to 230	°C	
Mold Temperature	50.0 to 100	°C	
Extrusion	Nominal Value	Unit	
Die Temperature	180 to 200	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

