

# 3M™ Dyneon™ Fluoroplastic THV 221AZ

Fluoroelastomer

3M Advanced Materials Division

Message:

Dyneon™ THV 221A Z Fluorothermoplastic is a flexible, transparent fluoroplastic composed of tetrafluoroethylene, hexafluoropropylene and vinylidene fluoride in the form of an agglomerate. It provides a balance of low temperature processing, low flammability, 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 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	Agglomerate
Processing Method	Film Extrusion
	Injection Molding
	Profile Extrusion
	Wire & Cable Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.95	g/cm <sup>3</sup>	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

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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

