

3M™ Dyneon™ Fluoroplastic PFA 6525TZ

Perfluoroalkoxy

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroplastic PFA 6525TZ (a fully fluorinated copolymer of tetrafluoroethylene and perfluorovinylether) has exceptional heat resistance, excellent electrical properties and excellent chemical and weather resistance.

Features

- Wide service temperature range
- Excellent, almost universal resistance to solvents and chemicals
- Extremely high weathering resistance and UV stability
- Excellent electrical insulation properties, e. g.
 - dielectric breakdown strength
 - dielectric constant
- High LOI (limiting oxygen index); does not support combustion
- Smooth surfaces
- Good non-stick characteristics
- Good low-friction properties
- Broad processing window
- Improved stress crack resistance

General Information	
Features	Copolymer
	Good Chemical Resistance
	Good Electrical Properties
	Good UV Resistance
	Good Weather Resistance
	High Heat Resistance
	Low Friction
	Low Viscosity
	Non-Stick
	Solvent Resistant
Uses	Wire & Cable Applications
Forms	Pellets
Processing Method	Injection Molding
	Wire & Cable Extrusion

Physical	Nominal Value	Unit	Test Method
Density	2.15	g/cm ³	ISO 12086
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	25	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	20.0	MPa	ISO 527-1
Tensile Strain (Break, 23°C)	350	%	ISO 527-1

Thermal	Nominal Value	Unit	Test Method
Melting Temperature	308	°C	ISO 12086
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	> 95	%	ASTM D2863
Injection	Nominal Value	Unit	
Processing (Melt) Temp	360 to 390	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	360 to 390	°C	

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