

3M™ Dyneon™ Fluoroplastic PFA 6515TZ

Perfluoroalkoxy

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroplastic PFA 6515TZ (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 limiting oxygen index: Does not support combustion
- Smooth surfaces
- Good non-stick characteristics
- Good low-friction properties
- Broad processing window
- Improved mold release property
- Improved stress crack resistance
- High transparency

General Information			
Features	Copolymer		
	Good Chemical Resistance		
	Good Electrical Properties		
	Good Mold Release		
	Good UV Resistance		
	Good Weather Resistance		
	High Heat Resistance		
	Low Friction		
	Medium Clarity		
	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/cm³	ISO 12086
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	15	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	28.0	MPa	ISO 527-1

Tensile Strain (Break, 23°C)	420	%	ISO 527-1
Flexural Modulus	620	MPa	ASTM D790
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	250 to 400	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	< 400	°C	

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