

3M™ Dyneon™ Fluoroplastic PFA 6505TZ

Perfluoroalkoxy

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroplastic PFA 6505TZ (a fully fluorinated copolymer of tetrafluoroethylene and perfluorovinylether) has exceptional temperature resistance, excellent electrical properties and excellent chemical inertness and weather resistance. It is used in molded valves, pumps, tanks, filters and pipes, in heat trace cables and in wire for appliances.

Features

- Wide service temperature range
- Excellent, almost universal resistance to solvents and chemicals
- Extremely high weathering resistance and UV stability
- Excellent electrical insulation properties
- 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

General Information			
Features	Copolymer		
	Good Chemical Resistance		
	Good Electrical Properties		
	Good UV Resistance		
	Good Weather Resistance		
	High Heat Resistance		
	Low Friction		
	Non-Stick		
	Solvent Resistant		
Uses	Filters		
	Piping		
	Pump Parts		
	Tanks		
	Valves/Valve Parts		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	2.15	g/cm ³	ISO 12086
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	5.0	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)	30.0	MPa	ISO 527-1
Tensile Strain (Break, 23°C)	410	%	ISO 527-1
Flexural Modulus	550	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	310	°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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