

3M™ Dyneon™ Fluoroplastic PFA 6502TZ

Perfluoroalkoxy

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroplastic PFA 6502TZ is a fully fluorinated copolymer of TFE & PPVE. The resin has been developed for the transfer molding and extrusion of claddings and linings. The easier processing under low shear rates was one goal and also 3M™ Dyneon™ PFA 6502T Z Fluorothermoplastic was designed to be used in roughest environments, e. g. in the chemical industry, where high strength and extreme thermal and chemical resistance are required.

Features

- Broad processing window
- Improved mold release property
- Improved stress crack resistance
- Smooth surfaces
- High transparency
- Process targets: Transfer molding and extrusion

General Information	
Features	Copolymer
	Good Chemical Resistance
	Good Mold Release
	High Clarity
	High Heat Resistance
	High Strength
Uses	Liners
Forms	Pellets
Processing Method	Blow Molding
	Compression Molding
	Extrusion
	Resin Transfer 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)	2.0	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)	400	%	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
Extrusion	Nominal Value	Unit	
Melt Temperature	< 400	°C	

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