

# 3M™ Dyneon™ Perfluoroelastomer PFE 40Z

Perfluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Perfluoroelastomer PFE 40Z is a technically advanced peroxide curable perfluoroelastomer. This product has been designed to have improved acid, water and steam resistance over 3M™ Dyneon™ Perfluoroelastomer PFE 90Z, since it can be formulated without the need for an inorganic base such as zinc oxide. It is classified as FFKM per ASTM D1418.

Special Features

Ideal for wet chemical, fluid handling, cleaning and chemical etching processes for CPI, aerospace and semiconductor manufacturing

Good compression set resistance

Continuous use temperature up to 220°C

Low metal ion content with low extractables in a wide range of chemicals

Typical Applications

Dyneon Perfluoroelastomer PFE 40Z has been designed to meet the challenges of demanding sealing applications. Its fully fluorinated backbone structure provides a very broad chemical and thermal stability. It can be used in applications such as mechanical seals, valves, pumps, reactors, mixers, ink/printing systems, painting systems, rubber-metal bonding parts, among others.

General Information			
Features	Low (to None) Ion Content		
	Low extract		
	Good chemical resistance		
	Thermal stability, good		
Uses	Pump parts		
	Valve/valve components		
	Seals		
	Printing machine parts		
Appearance	White		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.00	g/cm <sup>3</sup>	Internal method
Mooney Viscosity (ML 1+10, 121°C)	40	MU	Internal method
Fluorine Content	72	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	72		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	10.4	MPa	DIN 53504
Tensile Strength	19.0	MPa	DIN 53504
Tensile Elongation (Break)	140	%	DIN 53504
Compression Set			ASTM D395B
200°C, 70 hr	15	%	ASTM D395B
220°C, 70 hr	28	%	ASTM D395B

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