

3M™ Dyneon™ Perfluoroelastomer PFE 90Z

Perfluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Perfluoroelastomer PFE 90Z is a technically advanced perfluoroelastomer designed to meet the challenges of demanding sealing applications. Its fully fluorinated backbone structure provides a very broad chemical and thermal stability.

Special Features

Outstanding chemical resistance against most chemicals such as acids, alkalines, fuel, ketones, aldehydes, esters, alcohols and amines.

Good processability, scorch resistance and de-mouldability.

Excellent long term compression set resistance

Excellent heat ageing properties

Excellent physical properties

Typical Applications

Dyneon PFE finished products like Dyneon Perfluoroelastomer PFE 90Z 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	Workability, good		
	Good heat aging resistance		
	Good chemical resistance		
	alkali resistance		
	Alcohol resistance		
	Fuel resistance		
	acid resistance		
	Thermal stability, good		
	Good demoulding performance		
Uses	Pump parts		
	Valve/valve components		
	Seals		
	Printing machine parts		
Appearance	Opacity		
	White-like		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.98	g/cm ³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	90	MU	Internal method
Fluorine Content	72	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	73		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress (100% Strain)	13.1	MPa	DIN 53504
Tensile Strength	19.8	MPa	DIN 53504
Tensile Elongation (Break)	130	%	DIN 53504
Compression Set			ASTM D395B
200°C, 70 hr	29	%	ASTM D395B
230°C, 70 hr	37	%	ASTM D395B

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