

# 3M™ Dyneon™ Perfluoroelastomer PFE 7301BZ

Perfluoroelastomer

3M Advanced Materials Division

Message:

The 3M™ Dyneon™ Perfluoroelastomer compound PFE 7301BZ is a high temperature perfluoroelastomer with a broad chemical resistance and excellent physical properties at continuous high service temperatures up to 320°C. It is ideally suited for applications in the aerospace and chemical processing industry.

Special Features

Proprietary 80 Shore A black compound

Designed for high temperature applications

Continuous operating temperature of >300°C

Low long term compression set

Excellent chemical resistance

Superior resistance to HTS oils

Typical Applications

Finished parts based on 3M™ Dyneon™ Perfluoroelastomer compounds like PFE 7301BZ are used for true high temperature applications in the aerospace and the chemical processing industry. Typical applications are aero engine sealing systems or gearbox seals.

General Information			
Features	Low compressive deformability		
	Good chemical resistance		
	Heat resistance, high		
	Oil resistance		
Uses	Aerospace applications		
	Seals		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.01	g/cm <sup>3</sup>	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	12.5	MPa	DIN 53504
Tensile Strength	17.0	MPa	DIN 53504
Tensile Elongation (Break)	150	%	DIN 53504
Compression Set			ASTM D395B
200°C, 70 hr <sup>1</sup>	14	%	ASTM D395B
316°C, 70 hr <sup>2</sup>	44	%	ASTM D395B
NOTE			
1.	25% deflection		
2.	18% deflection		

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