3M[™] Dyneon[™] Perfluoroelastomer PFE 7403WZ

Perfluoroelastomer

3M Advanced Materials Division

Message:

The Dyneon Perfluoroelastomer compound PFE 7403WZ is a proprietary polymer-filled high temperature perfluoroelastomer specifically designed for use in semiconductor applications. It has excellent physical properties at continuous high service temperatures of 300°C and resistance to oxygen- and fluorine-containing plasma environments.

Special Features

Proprietary 75 Shore A white compound

Designed for high temperature applications

Continuous operating temperature of > 300 °C

Low particle generation

Low weight loss

Low outgassing

High purity

Excellent aggressive fluorinated plasma resistance

Low long term compression set

Excellent chemical resistance

Typical Applications

The Dyneon Perfluoroelastomer compound PFE 7403WZ is typically used across a wide range of wafer production processes.

General Information			
Features	The degassing effect is low to no		
	High purity		
	Low compressive deforma	bility	
	Good chemical resistance		
	Heat resistance, high		
Uses	Semiconductor molding compound		
Appearance	White		
Forms	Thick sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.11	g/cm³	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	74		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.70	МРа	DIN 53504
Tensile Strength	10.6	МРа	DIN 53504
Tensile Elongation (Break)	230	%	DIN 53504
Compression Set			ASTM D395B
200°C, 70 hr ¹	18	%	ASTM D395B
316°C, 70 hr ²	58	%	ASTM D395B
NOTE			

1.	25% deflection
2.	18% deflection

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

