

# 3M™ Dyneon™ Fluoroplastic PFA

## FLEX8502UHPZ

Perfluoroalkoxy

3M Advanced Materials Division

Message:

3M™ Dyneon™ Ultra High Purity PFA FLEX8502UHPZ family exhibits improved environmental stress crack resistance (ESCR) to stress cracking chemicals or such agents that specifically contain fluorosurfactants. In addition, this family offers very low levels of extractable ions, making it suitable for critical wet chemical processes in the semiconductor industry.

Features

Significantly longer life in fluorosurfactant containing fluids

Extremely low level of extractable ions

Smoother surfaces

Improved clarity

Improved flexibility

Service temperature range up to 240 °C

Extreme stress crack resistance

General Information			
Features	High ESCR (Stress Crack Resist.)		
	High Purity		
	Low (to None) Ion Content		
	Low Extractables		
Forms	Pellets		
Processing Method	Blow Molding		
	Compression Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Density	2.15	g/cm <sup>3</sup>	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)	35.0	MPa	ISO 527-1
Tensile Strain (Break, 23°C)	330	%	ISO 527-1
Flexural Modulus	600	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	300	°C	ISO 12086
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	> 95	%	ASTM D2863

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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

