

# 3M™ Dyneon™ Fluoroplastic PFA 6515UHPZ

Perfluoroalkoxy

3M Advanced Materials Division

Message:

3M™ Dyneon™ Ultra High Purity PFA 6515UHPZ grades are a new series of ultra-high purity fluoro-thermoplastics. These resins were developed for high-purity applications requiring ultra-low levels of metal and other cation and anion extractions, such as in the semiconductor market. The Dyneon PFA UHP Z family comprises grades that can be compression-molded, transfer-molded, extruded, injection-molded or blow-molded.

Features

- Extremely low level of extractable trace elements
- Extremely low levels of fluoride ions and other anions
- Service temperature range up to 260 °C
- Excellent chemical resistance
- UHP packaged to assure clean, contamination-free product

General Information			
Features	Good Chemical Resistance		
	High Purity		
	Low (to None) Ion Content		
	Low Extractables		
Uses	Semiconductor Molding Compounds		
Forms	Pellets		
Processing Method	Blow Molding		
	Compression Molding		
	Extrusion		
	Injection 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)	15	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)	26.0	MPa	ISO 527-1
Tensile Strain (Break, 23°C)	450	%	ISO 527-1
Flexural Modulus	620	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	309	°C	ISO 12086
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	> 95	%	ASTM D2863
Injection	Nominal Value	Unit	
Processing (Melt) Temp	250 to 400	°C	

Extrusion	Nominal Value	Unit
Melt Temperature	< 400	°C

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