

## 3M Dyneon™ PFE 80Z Peroxide Cure Perfluoroelastomer

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

3M™ Dyneon™ Peroxide Cure Perfluoroelastomer PFE 80Z is a technically advanced peroxide curable perfluoroelastomer. This product is designed to have improved acid resistance and lower metal ion extractables making it ideal for wet process electronics manufacturing such as semiconductor and flat panel display. It is classified as FFKM per ASTM D1418. Its fully fluorinated back bone structure provides a very broad chemical and thermal stability. Features and Benefits: Ideal for wet chemical, fluid handling, cleaning and chemical etching processes and for semiconductor manufacturing. Good acid resistance. Upper use temperature of 200°C. Very low metal ion content with low extractables in a wide range of chemicals. Peroxide curable FFKM. Information provided by the Dyneon division of 3M.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-PFE-80Z-Peroxide-Cure-Perfluoroelastomer.php](http://www.lookpolymers.com/polymer_3M-Dyneon-PFE-80Z-Peroxide-Cure-Perfluoroelastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.00 g/cc	2.00 g/cc	
Mooney Viscosity	80 @Temperature 121 °C	80 @Temperature 250 °F	ML 1+ 10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	Press Cure 10 Minutes @ 177°C, Post Cure 16 Hours @ 200°C; ASTM D2240
Tensile Strength at Break	11.0 MPa	1600 psi	Press Cure 10 Minutes @ 177°C, Post Cure 16 Hours @ 200°C; ASTM D412
Elongation at Break	230 %	230 %	Press Cure 10 Minutes @ 177°C, Post Cure 16 Hours @ 200°C; ASTM D412
100% Modulus	0.00480 GPa	0.696 ksi	Press Cure 10 Minutes @ 177°C, Post Cure 16 Hours @ 200°C; ASTM D412
Compression Set	49 % @Treatment Temp. 200 °C, Time 252000 sec	49 % @Treatment Temp. 392 °F, Time 70.0 hour	Method B, -214 O-rings, Aged 70 Hours, 25% Deformation; ASTM D395
	69 % @Treatment Temp. 200 °C, Time 605000 sec	69 % @Treatment Temp. 392 °F, Time 168 hour	Method B, -214 O-rings, Aged 168 Hours, 25% Deformation; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	
Brittleness Temperature	-35.0 °C	-31.0 °F	

Transformation Temperature Thermal Properties	-2.00 °C Metric	28.4 °F English	TR10 Comments
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Descriptive Properties	Value	Comments
Color	Off White	
Form	Slab	
MH, Maximum Torque	11.9 Inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
ML, Minimum Torque	2.0 Inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
t2, Time to 2 Inch-lb Rise from Minimum	0.8 Minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
t'50, Time to 50% Cure	1.1 Minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
t'90, Time to 90% Cure	2.7 Minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289

## Contact Songhan Plastic Technology Co.,Ltd.

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