

## 3M Dyneon™ PFE 60Z Perfluoroelastomer

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

### Material Notes:

Dyneon™ PFE 60 Z is a technically advanced peroxide curable perfluoroelastomer, designed to meet the challenges of demanding sealing applications. It's fully fluorinated back bone structure provides a very broad chemical and thermal stability. Low viscosity provides good mold flow and is ideal for molding large parts. It is classified as FFKM per ASTM D1418. Features and Benefits: Ideal for wet chemical, fluid handling, cleaning and chemical etching processes and for large parts for CPI and aerospace. Low metal ion content with low extractables in a wide range of chemicals. Upper use temperature of 220°C. Good compression set resistance. Good mold flow. 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-60Z-Perfluoroelastomer.php](http://www.lookpolymers.com/polymer_3M-Dyneon-PFE-60Z-Perfluoroelastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.98 g/cc	1.98 g/cc	
Mooney Viscosity	60 @Temperature 121 °C	60 @Temperature 250 °F	ML 1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	Press cure 10 Minutes @ 177°C, Post Cure 16 Hours @ 232°C; ASTM D2240
Tensile Strength at Break	17.9 MPa	2600 psi	Press cure 10 Minutes @ 177°C, Post Cure 16 Hours @ 232°C; ASTM D412
Elongation at Break	165 %	165 %	Press cure 10 Minutes @ 177°C, Post Cure 16 Hours @ 232°C; ASTM D412
100% Modulus	0.00110 GPa	0.160 ksi	Press cure 10 Minutes @ 177°C, Post Cure 16 Hours @ 232°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 168 Hours, 25% Deformation; ASTM D395
	55 % @Treatment Temp. 200 °C, Time 605000 sec	55 % @Treatment Temp. 392 °F, Time 168 hour	Method B, -214 O-rings, Aged 168 Hours, 25% Deformation; ASTM D395
	56 % @Treatment Temp. 230 °C, Time 252000 sec	56 % @Treatment Temp. 446 °F, Time 70.0 hour	Method B, -214 O-rings, Aged 70 Hours, 25% Deformation; ASTM D395
	68 %	68 %	Method B, -214 O-rings, Aged 168

Mechanical Properties	@Treatment Temp. 230 Metric	@Treatment Temp. 446 English	Hours, 25% Deformation; ASTM D395 Comments
	Time 605000 sec	Time 168 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	
Brittleness Temperature	-35.0 °C	-31.0 °F	
Transformation Temperature	-2.00 °C	28.4 °F	TR10

Descriptive Properties	Value	Comments
Color	Off White to translucent	
Form	Slab	
MH, Maximum Toque	13.4 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	0.6 Minute	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
t'50, Time to 50% Cure	0.8 Minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
t'90, Time to 90% Cure	1.5 Minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China