

3M Dyneon™ PFE 132TBZ High Temperature Perfluoroelastomer

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer

Material Notes:

3M™ Dyneon™ PFE 132TBZ is a technically advanced high temperature perfluoroelastomer (HT PFE). It is designed to meet the challenges of higher temperature plasma applications. It is classified as FFKM per ASTM D1418. Its fully fluorinated backbone structure provides a very broad chemical and thermal stability. Features and Benefits: Upper use temperature of 315°C Excellent compression set resistance offering enhanced sealing force retention and seal life ideal for dry side (thermal processes) semiconductor applications including plasma Low metal ion content with low extractables Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-PFE-132TBZ-High-Temperature-Perfluoroelastomer.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in³	
Mooney Viscosity	110 @Temperature 121 °C	110 @Temperature 250 °F	ML (1+10)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79	79	Press Cure 15 Minutes @ 188°C (370°F), Post Cure 24 Hours @ 250°C (482°F); ASTM D2240
Tensile Strength at Break	15.6 MPa	2260 psi	Press Cure 15 Minutes @ 188°C (370°F), Post Cure 24 Hours @ 250°C (482°F)
Elongation at Break	241 %	241 %	Press Cure 15 Minutes @ 188°C (370°F), Post Cure 24 Hours @ 250°C (482°F)
100% Modulus	0.00690 GPa	1.00 ksi	Press Cure 15 Minutes @ 188°C (370°F), Post Cure 24 Hours @ 250°C (482°F)
Compression Set	36 % @Temperature 232 °C, Time 252000 sec	36 % @Temperature 450 °F, Time 70.0 hour	-214 O-rings, 25% Deformation; ASTM D395 Method B
	73 % @Temperature 300 °C, Time 252000 sec	73 % @Temperature 572 °F, Time 70.0 hour	-214 O-rings, 25% Deformation; ASTM D395 Method B

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	315 °C	599 °F	
Brittleness Temperature	-35.0 °C	-31.0 °F	

Transformation Temperature Thermal Properties	-2.00 °C Metric	28.4 °F English	TR 10 Comments
Descriptive Properties	Value	Comments	
Color	White		
Form	Crumb		
MH, Maximum Torque	16.0 In-lb	100 cpm, 0.5° Arc, 12 Minutes @ 188°C (370°F), ASTM D5289	
ML, Minimum Torque	1.3 In-lb	100 cpm, 0.5° Arc, 12 Minutes @ 188°C (370°F), ASTM D5289	
t'50, Time to 50% Cure	2.8 minutes	100 cpm, 0.5° Arc, 12 Minutes @ 188°C (370°F), ASTM D5289	
t'90, Time to 90% Cure	6.2 minutes	100 cpm, 0.5° Arc, 12 Minutes @ 188°C (370°F), ASTM D5289	
ts2, Time to 2 Inch-lb Rise from Minimum	1.7 minutes	100 cpm, 0.5° Arc, 12 Minutes @ 188°C (370°F), ASTM D5289	

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