

3M Dyneon™ FPO 3741 Fluoroelastomer

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

Material Notes:

Information provided by the Dyneon division of 3M.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FPO-3741-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.89 g/cc	1.89 g/cc	
Mooney Viscosity	38 @Temperature 121 °C	38 @Temperature 250 °F	ML 1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	Press cure 15 minutes@ 180°C
	75	75	Post cure 2 hours @ 180°C
Tensile Strength at Break	18.0 MPa	2610 psi	Press cure 15 minutes@ 180°C
	22.0 MPa	3190 psi	Post cure 2 hours @ 180°C
Elongation at Break	210 %	210 %	Post cure 2 hours @ 180°C
	220 %	220 %	Press cure 15 minutes@ 180°C
100% Modulus	0.00450 GPa	0.653 ksi	Press cure 15 minutes@ 180°C
	0.00580 GPa	0.841 ksi	Post cure 2 hours @ 180°C
Compression Set	30 % @Treatment Temp. 200 °C, Time 252000 sec	30 % @Treatment Temp. 392 °F, Time 70.0 hour	Method B; ASTM D395

Thermal Properties	Metric	English	Comments
Transformation Temperature	-6.00 °C	21.2 °F	TR10; ASTM D1329

Component Elements Properties	Metric	English	Comments
Fluorine, F	69.5 %	69.5 %	

Descriptive Properties	Value	Comments
Color	White	

Descriptive Properties	Value	Comments
ML, Minimum Torque	0.7 inch-lb	100 cpm, 0.5° Arc, 12 Minutes @ 177°C
t2, Time to 2 Inch-lb Rise from Minimum	1 Minute	100 cpm, 0.5° Arc, 12 Minutes @ 177°C
t'50, Time to 50% Cure	2.3 Minutes	100 cpm, 0.5° Arc, 12 Minutes @ 177°C
t'90, Time to 90% Cure	5 Minutes	100 cpm, 0.5° Arc, 12 Minutes @ 177°C

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