

3M Dyneon™ FPO 3740 Fluoroelastomer

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

Material Notes:

3M™ Dyneon™ FPO 3740 is a peroxide curable fluoroelastomer terpolymer containing 69.5 wt% fluorine. FPO 3740 can be used in compression, transfer or injection molding, and extrusion processes. Features and Benefits: Improved water, steam, and base resistance when compared to bisphenol cured fluoroelastomers Good press cure physical properties Excellent flow properties Information provided by the Dyneon division of 3M.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FPO-3740-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.88 g/cc	1.88 g/cc	
Mooney Viscosity	37 @Temperature 121 °C	37 @Temperature 250 °F	ML 1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	Press cure 10 minutes @ 177°C
	78	78	Post cure 2 hours @ 232°C
Tensile Strength at Break	16.4 MPa	2380 psi	Press cure 10 minutes @ 177°C
	22.7 MPa	3290 psi	Post cure 2 hours @ 232°C
Elongation at Break	220 %	220 %	Post cure 2 hours @ 232°C
	230 %	230 %	Press cure 10 minutes @ 177°C
100% Modulus	0.00480 GPa	0.696 ksi	Press cure 10 minutes @ 177°C
	0.00630 GPa	0.914 ksi	Post cure 2 hours @ 232°C
Compression Set	40 % @Treatment Temp. 200 °C, Time 252000 sec	40 % @Treatment Temp. 392 °F, Time 70.0 hour	ASTM D395 Method B

Thermal Properties	Metric	English	Comments
Transformation Temperature	-7.00 °C	19.4 °F	ASTM D1329

Optical Properties	Metric	English	Comments
Transmission, Visible	25 %	25 %	translucent, but thickness not quantified

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

Descriptive Properties	Value	Comments
Color	Translucent	
MH, Maximum Toque	18.8 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
ML, Minimum Torque	0.9 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
t2, Time to 2 Inch-lb Rise from Minimum	0.4 Minute	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
t'50, Time to 50% Cure	0.6 Minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
t'90, Time to 90% Cure	1.9 Minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289

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