

3M Dyneon™ FT 2350 Fluoroelastomer

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

Material Notes:

3M™ Dyneon™ Fluoroelastomer FT 2350 can be compounded using standard water cooled internal mixers or two-roll mills with standard fillers and ingredients utilized in typical fluoroelastomer formulations. The “dry” ingredients should be blended before adding to the masticated gum. For best results, Dyneon FT 2350 should be banded on the mill several minutes prior to adding the blended dry ingredients. Once mixed, the compounded stocks have good scorch resistance and storage stability. Composition: Terpolymer of vinylidene fluoride, hexafluoropropylene, and tetrafluoroethyleneIncorporated cure terpolymer gumstockProcess targets: compression and transfer molding, and calendaringProprietary incorporated cure technologyInformation provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FT-2350-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.86 g/cc	1.86 g/cc	
Mooney Viscosity	56 @Temperature 121 °C	56 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	15.2 MPa	2210 psi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	310 %	310 %	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00372 GPa	0.540 ksi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	36 %	36 %	Aged 70 hours @ 200°C

Thermal Properties	Metric	English	Comments
Transformation Temperature	-14.0 °C	6.80 °F	TR10; ASTM D1329

Component Elements Properties	Metric	English	Comments
Fluorine, F	68.6 %	68.6 %	

Descriptive Properties	Value	Comments
Color	Opaque Off-White	
MH, Maximum Torque	14.8 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

Descriptive Properties	Value	Comments
Solubility	Ketones and Esters	
t ⁵⁰ - Time to 50% cure	1.2 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t ⁹⁰ - Time to 90% cure	1.7 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	0.9 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

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