

3M Dyneon™ FLS 2650 Fluoroelastomer

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

Material Notes:

3M™ Dyneon™ Fluoroelastomer FLS 2650 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 FLS 2650 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 tetrafluoroethylene; plus cure site monomer Low volume swell high fluorine terpolymer Can be used in blends with fluorosilicone, silicone, EDPM and other peroxide curable elastomers Process targets: transfer and compression molding Slightly improved water and steam resistance over conventional fluoroelastomer Vulcanization of thick cross-section parts without fissuring Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FLS-2650-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.89 g/cc	1.89 g/cc	
Mooney Viscosity	50 @Temperature 121 °C	50 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	Press Cure 15 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	17.9 MPa	2600 psi	Press Cure 15 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	230 %	230 %	Press Cure 15 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00538 GPa	0.780 ksi	Press Cure 15 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	28 %	28 %	Aged 70 hours @ 200°C, -214 O-rings; ASTM D395 Method B

Thermal Properties	Metric	English	Comments
Transformation Temperature	-7.00 °C	19.4 °F	TR10; ASTM D1329

Component Elements Properties	Metric	English	Comments
Fluorine, F	70.3 %	70.3 %	

Descriptive Properties	Value	Comments
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Color Descriptive Properties	Translucent Amber Value	Comments
MH, Maximum Torque	11.9 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ML, Minimum Torque	1.8 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Solubility	Partially soluble in low molecular weight ketones and esters	
t`50, Time to 50% cure	1.1 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t`90 - Time to 90% cure	3.2 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	0.7 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

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