

3M Dyneon™ FE 5522 Fluoroelastomer

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

Material Notes:

3M™ Dyneon™ Fluoroelastomer FE 5522 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 FE 5522 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: Low fluorine content terpolymer of vinylidene fluoride, hexafluoropropylene, and tetrafluoroethylene. Low viscosity gum stock without incorporated curatives. Process targets: Injection and transfer molding. Amine or bisphenol curable. Improved low temperature flexibility over standard dipolymers and terpolymers. Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FE-5522-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Mooney Viscosity	29 @Temperature 121 °C	29 @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	13.8 MPa	2000 psi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	175 %	175 %	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00655 GPa	0.950 ksi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	20 %	20 %	Aged 70 hours @ 200°C, -214 O-rings; ASTM D395 Method B

Thermal Properties	Metric	English	Comments
Transformation Temperature	-19.0 °C	-2.20 °F	TR10; ASTM D1329

Component Elements Properties	Metric	English	Comments
Fluorine, F	65.5 %	65.5 %	

Descriptive Properties	Value	Comments
Color	Translucent to Off-White	

Descriptive Properties	Value	Comments
ML, Minimum Torque	0.9 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Solubility	Ketones and Esters	
t ⁵⁰ - Time to 50% cure	1.5 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t ⁹⁰ - Time to 90% cure	2.1 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	1.3 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

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