

3M Dyneon™ FG 5661 Fluoroelastomer

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

Material Notes:

3M™ Dyneon™ Fluoroelastomer FG 5661 can be compounded using standard water cooled internal mixers or two-roll mills. The “dry” ingredients should be blended before adding to the masticated gum. For best results, FG 5661 should be banded on the mill several minutes prior to adding the blended dry ingredients. Once mixed, the compounded stocks display excellent processing characteristics and storage stability. Composition: Di-polymer of vinylidene fluoride and hexafluoropropylene High mooney version of FG 5630Q In compliance with US FDA 21 CFR 177.2600 When compared to diamine cured compounds this product gives excellent mold release, better mold flow, superior compression set resistance, and superior water resistance at elevated temperatures Proprietary incorporated cure technology Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FG-5661-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Mooney Viscosity	60 @Temperature 121 °C	60 @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	15.33 MPa	2223 psi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	193 %	193 %	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.006950 GPa	1.008 ksi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	14 %	14 %	Aged 70 hours @ 200°C, Method B, O-rings -214; ASTM D395

Thermal Properties	Metric	English	Comments
Transformation Temperature	-18.0 °C	-0.400 °F	TR10; ASTM D1329

Component Elements Properties	Metric	English	Comments
Fluorine, F	65.9 %	65.9 %	

Descriptive Properties	Value	Comments
Color	Opaque Off-White	

Descriptive Properties	Value	Comments
	inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ML, Minimum Torque	2.4 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Mooney Scorch, MS	>50	@ 121°C
	1	Point rise at 25 min @ 121°C
Solubility	Ketones and Esters	
t ⁵⁰ , Time to 50% cure	1.9 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t ⁹⁰ - Time to 90% cure	2.6 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	1.4 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

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