

## 3M Dyneon™ FG 5630Q Fluoroelastomer

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

### Material Notes:

3M™ Dyneon™ Fluoroelastomer FG 5630Q 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 5630Q 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 in compliance with 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-5630Q-Fluoroelastomer.php](http://www.lookpolymers.com/polymer_3M-Dyneon-FG-5630Q-Fluoroelastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Mooney Viscosity	30 @Temperature 121 °C	30 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	14.8 MPa	2140 psi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	210 %	210 %	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00558 GPa	0.810 ksi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	13 %	13 %	Aged 70 hours @ 200°C

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	

<b>ML Maximum Torque Descriptive Properties</b>	<b>21.3 inch-lb Value</b>	<b>100 cpm, 0.5° Arc, 6 Minutes @ 177°C Comments</b>
ML, Minimum Torque	1 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Solubility	Ketones and Esters	
t`50, Time to 50% cure	1.7 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t`90 - Time to 90% cure	2.8 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	1.5 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

## Contact Songhan Plastic Technology Co.,Ltd.

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