

## 3M Dyneon™ FE 5620Q Fluoroelastomer

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

### Material Notes:

3M™ Dyneon™ Fluoroelastomer FE 5620Q 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, FE 5620Q 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

Low viscosity version of FE 5640Q

Process targets: injection and transfer molding, extrusion and calendering

Improved scorch resistance at high molding temperatures

Proprietary incorporated cure technology

Excellent mold release-can be used in automated injection molding equipment

Improved cure technology resulting in more consistent part size from successive molding cycles

Clean running

Compounds prepared from Dyneon FE 5620 can be formulated to meet Mil-R-83248

Information provided by Dyneon, A 3M Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-FE-5620Q-Fluoroelastomer.php](http://www.lookpolymers.com/polymer_3M-Dyneon-FE-5620Q-Fluoroelastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Mooney Viscosity	23 @Temperature 121 °C	23 @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	15.4 MPa	2240 psi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	195 %	195 %	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	13 %	13 %	Aged 70 hours @ 200°C, -214 O-rings; ASTM D395 Method B

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	
MH, Maximum Torque	21 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 200°C, ASTM D5289
	22.1 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
ML, Minimum Torque	0.5 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 200°C, ASTM D5289
	0.8 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
Solubility	Ketones and Esters	
t <sup>50</sup> , Time to 50% cure	0.9 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 200°C, ASTM D5289
	2.7 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
t <sup>90</sup> - Time to 90% cure	1.1 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 200°C, ASTM D5289
	3.7 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289
ts2 - Time to 2 in-lb rise from min	0.8 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 200°C, ASTM D5289
	2.2 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C, ASTM D5289

## Contact Songhan Plastic Technology Co.,Ltd.

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