

## 3M Dyneon™ FC 2211 Fluoroelastomer

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

### Material Notes:

Dyneon FC 2211 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 masticated gum. For best results, FC 2211 should be branded on the mill several minutes prior to adding the blended dry ingredients. Once mixed, the compounded stocks have good scorch resistance and storage stability. Features and Benefits: Composition: di-polymer of vinylidene fluoride and hexafluoropropylene Ultra low viscosity gumstock without incorporated curatives Process targets: injection and transfer molding, extrusion, calendaring and coatings Viscosity modifier Greater flow and filler loadings compared to conventional high viscosity 66% fluoropolymers FC 2211 is amine or bisphenol curable Information provided by Dyneon, A 3M Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-FC-2211-Fluoroelastomer.php](http://www.lookpolymers.com/polymer_3M-Dyneon-FC-2211-Fluoroelastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Mooney Viscosity	20 @Temperature 121 °C	20 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	12.9 MPa	1870 psi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	180 %	180 %	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00414 GPa	0.600 ksi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	17 %	17 %	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	Translucent to Off-White	

<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>
ML, Minimum Torque	0.3 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Solubility	Ketones and Esters	
t <sup>50</sup> , Time to 50% cure	2.5 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t <sup>90</sup> - Time to 90% cure @ 177°C - minutes	3.8 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min @ 177°C - min	2.2 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

## Contact Songhan Plastic Technology Co.,Ltd.

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