

## 3M Dyneon™ FC 2260 Fluoroelastomer

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

### Material Notes:

3M™ Dyneon™ Fluoroelastomer FC 2260 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 FC 2260 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: di-polymer of vinylidene fluoride and hexafluoropropylene plus cure site monomer Can be used in blends with fluorosilicone, silicone, EDPM and other peroxide curable elastomers Process targets: transfer and compression molding and calendaring Peroxide cure technology Slightly improved water and steam resistance over conventional fluoroelastomer Vulcanization of thick cross-section parts without fissuring Information provided by Dyneon, A 3M Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-FC-2260-Fluoroelastomer.php](http://www.lookpolymers.com/polymer_3M-Dyneon-FC-2260-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	76	76	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	16.17 MPa	2345 psi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	225 %	225 %	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00514 GPa	0.745 ksi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	25 %	25 %	Aged 70 hours @ 200°C; 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
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Color Descriptive Properties	Translucent to Off-White Value	Comments
MH, Maximum Torque	11.1 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ML, Minimum Torque	2.1 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Solubility	Partially soluble in low molecular weight esters and ketones	
t`50, Time to 50% cure	1.1 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t`90 - Time to 90% cure	3 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	0.8 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

## Contact Songhan Plastic Technology Co.,Ltd.

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