

3M Dyneon™ FC 2145 Fluoroelastomer

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

Material Notes:

3M™ Dyneon™ Fluoroelastomer FC 2145 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 2145 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
 Low viscosity gumstock without incorporated curatives
 Process targets: injection and transfer molding, extrusion, calendaring and coatings
 FC 2145 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-2145-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Mooney Viscosity	28 @Temperature 121 °C	28 @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	12.17 MPa	1765 psi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	184 %	184 %	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D4645
100% Modulus	0.00555 GPa	0.805 ksi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	16 %	16 %	Aged 70 hours @ 200°C, Method B, - 214 O-rings; 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	Straw	
MH, Maximum Torque		100 cpm, 0.5° Arc, 6 Minutes @ 177°C

Descriptive Properties	18.9 inch-lb Value	Comments
ML, Minimum Torque	0.8 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Solubility	Ketones and Esters	
t ⁵⁰ , Time to 50% cure	2.4 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t ⁹⁰ - Time to 90% cure	3.5 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	1.9 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

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