

3M Dyneon™ FC 2177D Fluoroelastomer

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

Material Notes:

3M™ Dyneon™ Fluoroelastomer FC 2177D 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 2177D 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
 Medium viscosity
 Process targets: compression and transfer molding, and calendaring
 Proprietary incorporated cure technology
 Excellent hot tear strength for removing complex parts from mold
 Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FC-2177D-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Mooney Viscosity	34 @Temperature 121 °C	34 @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	12.86 MPa	1865 psi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	240 %	240 %	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00483 GPa	0.700 ksi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	21 %	21 %	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	

ML Maximum Torque Descriptive Properties	14.6 inch-lb Value	100 cpm, 0.5° Arc, 6 Minutes @ 177°C Comments
ML, Minimum Torque	1.6 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Solubility	Ketones and Esters	
t`50, Time to 50% cure	2.5 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t`90 - Time to 90% cure	4.3 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	1.8 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

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