

3M Dyneon™ FC 2123 Fluoroelastomer

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

Material Notes:

3M™ Dyneon™ Fluoroelastomer FC 2123 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 2123 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 version of FC 2144 Process targets: injection and transfer molding, extrusion, bonding and calendaring Proprietary incorporated cure technology Excellent hot tear properties for molding articles with complex geometric profiles Excellent compression set resistance for molded goods Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FC-2123-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Mooney Viscosity	25 @Temperature 121 °C	25 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	71	71	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	16.2 MPa	2350 psi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	270 %	270 %	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00365 GPa	0.530 ksi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	20 %	20 %	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	

MM, Maximum Torque Descriptive Properties	10.1 inch-lb Value	100 cpm, 0.5° Arc, 6 Minutes @ 200°C Comments
	11.6 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ML, Minimum Torque	0.7 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 200°C
	0.9 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Solubility	Ketones and Esters	
t`50, Time to 50% cure	0.6 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 200°C
	1.6 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t`90 - Time to 90% cure	1.2 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 200°C
	2.9 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	0.5 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 200°C
	1.3 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

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