

3M Dyneon™ FC 2173 Fluoroelastomer (discontinued **)

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

Material Notes:

Composition: di-polymer of vinylidene fluoride and hexafluoropropylene
 Low viscosity
 Process targets: compression molding
 Proprietary incorporated cure technology
 Excellent mold flow and mold release characteristics
 Improved processing version of FC 2170
 High shrinkage version of FC 2170
 Excellent heat and chemical resistance
 Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FC-2173-Fluoroelastomer-nbspdiscontinued-.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	74	74	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	14.8 MPa	2150 psi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	890 %	890 %	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D4645
100% Modulus	0.0148 GPa	2.15 ksi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	18 %	18 %	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
5`50, Time to 50% cure, minutes	1.7	177°C
Color	Opaque Off-White	
MH, Maximum Torque, inch-lb @ 177°C	23.8	
ML, Minimum Torque inch-lb @ 177°C	1.1	

Descriptive Properties	Values and Esters	Comments
t ⁹⁰ - Time to 90% cure @ 177°C - minutes	2.6	
ts2 - Time to 2 in-lb rise from min @ 177°C - min	1.4	

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