

3M Dyneon™ Fluorel™ FC-2230 Fluoroelastomer VF2 + HFP Dipolymer (discontinued **)

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

Material Notes:

Data provided by the manufacturer, Dyneon LLC. Non-incorporated cure polymer, 65.9%F in polymer with 22% Medium Thermal Carbon Black (N990), 2% MgO, 4% Ca(OH)₂, 1.4% Dihydroxy Crosslinker, 0.4% Phosphonium Accelerator. Blend with incorporated cure grades for processing or property modification. Used in Raw Gums.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-Fluorel-FC-2230-Fluoroelastomer-VF2-HFP-Dipolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	
Oxygen Transmission	98.0 cc-mm/m ² -24hr-atm	249 cc-mil/100 in ² -24hr-atm	
Mooney Viscosity	38 @Temperature 121 °C	38 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	73	73	
Tensile Strength, Ultimate	14.0 MPa	2030 psi	
Tensile Strength, Yield	6.70 MPa	972 psi	M100
Elongation at Break	165 %	165 %	
Coefficient of Friction, Dynamic	0.80	0.80	
Compression Set	15 % @Temperature 200 °C	15 % @Temperature 392 °F	70 hr; ASTM D395B

Thermal Properties	Metric	English	Comments
CTE, linear	200 µm/m-°C @Temperature 20.0 °C	111 µin/in-°F @Temperature 68.0 °F	
Specific Heat Capacity	1.65 J/g-°C	0.394 BTU/lb-°F	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	
Glass Transition Temp, Tg	-18.0 °C	-0.400 °F	TR10

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 - 1.00e+14 ohm-cm	1.00e+13 - 1.00e+14 ohm-cm	
Dielectric Constant	11.4 @Frequency 6.00e+7 Hz	11.4 @Frequency 6.00e+7 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	

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