

3M Dyneon™ Fluorel™ FLS-2530 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. Incorporated cure polymer, 69%F in polymer with 22% Medium Thermal Carbon Black (N990), 2% MgO, and 4% Ca(OH)₂. High fluorine dipolymer with improved fluid resistance over lower fluorine dipolymers. Used in Molded Goods Applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-Fluorel-FLS-2530-Fluoroelastomer-VF2-HFP-Dipolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 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	77	77	
Tensile Strength, Ultimate	15.0 MPa	2180 psi	
Tensile Strength, Yield	4.80 MPa	696 psi	M100
Elongation at Break	255 %	255 %	
Coefficient of Friction, Dynamic	0.80	0.80	
Compression Set	19 % @Temperature 200 °C	19 % @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	-8.00 °C	17.6 °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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