

3M Dyneon™ Fluorel™ FE-5640Q 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, 65.9%F in polymer with 22% Medium Thermal Carbon Black (N990), 2% MgO, and 4% Ca(OH)₂. The FE series O-ring grades are the cleanest running Dyneon O-ring grade polymers available; provide excellent mold release & improved scorch safety. This allows molding at higher temperatures (>200°C) for faster cure cycles - resulting in parts with improved dimensional stability. FE-5621Q and FE-5641Q have lower mold shrinkage. Used in O-Ring Applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-Fluorel-FE-5640Q-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	40 @Temperature 121 °C	40 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	
Tensile Strength, Ultimate	16.0 MPa	2320 psi	
Tensile Strength, Yield	7.20 MPa	1040 psi	M100
Elongation at Break	200 %	200 %	
Coefficient of Friction, Dynamic	0.80	0.80	
Compression Set	11 % @Temperature 200 °C	11 % @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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