

3M Dyneon™ Fluorel™ FE-5840Q Fluoroelastomer VF2 + HFP + TFE Terpolymer (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, 70.1%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 and molded goods applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-Fluorel-FE-5840Q-Fluoroelastomer-VF2-HFP-TFE-Terpolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.86 g/cc	0.0672 lb/in ³	
Mooney Viscosity	37 @Temperature 121 °C	37 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	
Tensile Strength, Ultimate	14.0 MPa	2030 psi	
Tensile Strength, Yield	6.80 MPa	986 psi	M100
Elongation at Break	210 %	210 %	
Coefficient of Friction, Dynamic	0.80	0.80	
Compression Set	26 % @Temperature 200 °C	26 % @Temperature 392 °F	70 hr; ASTM D395B

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-7.00 °C	19.4 °F	TR10

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