

## 3M Dyneon™ Fluorel™ FG-5690Q 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)<sub>2</sub>. When compared to other food grade Diak cured compounds, these products offer improved mixed compound shelf-life, mold flow and release, as well as better water and compression set resistance. Can be diluted with FC-2230, FC-2178, FT-2481. Used in Food Grade Applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-Fluorel-FG-5690Q-Fluoroelastomer-VF2-HFP-Dipolymer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_3M-Dyneon-Fluorel-FG-5690Q-Fluoroelastomer-VF2-HFP-Dipolymer-nbspdiscontinued-.php)

| Physical Properties | Metric                              | English                                  | Comments |
|---------------------|-------------------------------------|--|----------|
| Density             | 1.80 g/cc                           | 0.0650 lb/in <sup>3</sup>                |          |
| Oxygen Transmission | 98.0 cc-mm/m <sup>2</sup> -24hr-atm | 249 cc-mil/100 in <sup>2</sup> -24hr-atm |          |
| Mooney Viscosity    | 90<br>@Temperature 121 °C           | 90<br>@Temperature 250 °F                | ML1+10   |

| Mechanical Properties            | Metric                      | English                     | Comments          |
|----------------------------------|-----------------------------|-----------------------------|-------------------|
| Hardness, Shore A                | 76                          | 76                          |                   |
| Tensile Strength, Ultimate       | 15.0 MPa                    | 2180 psi                    |                   |
| Tensile Strength, Yield          | 6.60 MPa                    | 957 psi                     | M100              |
| Elongation at Break              | 205 %                       | 205 %                       |                   |
| Coefficient of Friction, Dynamic | 0.80                        | 0.80                        |                   |
| Compression Set                  | 10 %<br>@Temperature 200 °C | 10 %<br>@Temperature 392 °F | 70 hr; ASTM D395B |

| Thermal Properties        | Metric                              | English                               | Comments |
|---------------------------|-------------------------------------|---------------------------------------|----------|
| CTE, linear               | 200 µm/m-°C<br>@Temperature 20.0 °C | 111 µin/in-°F<br>@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 <sup>2</sup> -°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<br>ohm-cm    | 1.00e+13 - 1.00e+14<br>ohm-cm    |          |
| Dielectric Constant    | 11.4<br>@Frequency 6.00e+7<br>Hz | 11.4<br>@Frequency 6.00e+7<br>Hz |          |
| Dielectric Strength    | 25.0 kV/mm                       | 635 kV/in                        |          |

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