

## 3M Dyneon™ FE 5840Q Fluoroelastomer

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

### Material Notes:

Composition: Terpolymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene Recommended alternative for Dyneon FX 9038  
 Process targets: compression, injection and transfer molding Proprietary incorporated cure technology High fluorine material designed for O-ring and gasket applications Recommended for automotive fuel system applications Clean running Excellent mold release Information provided by Dyneon, A 3M Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-FE-5840Q-Fluoroelastomer.php](http://www.lookpolymers.com/polymer_3M-Dyneon-FE-5840Q-Fluoroelastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.89 g/cc	1.89 g/cc	
Mooney Viscosity	37 @Temperature 121 °C	37 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	13.8 MPa	2000 psi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	210 %	210 %	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00676 GPa	0.980 ksi	Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	26 %	26 %	Aged 70 hours @ 200°C

Thermal Properties	Metric	English	Comments
Transformation Temperature	-7.00 °C	19.4 °F	TR10; ASTM D1329

Component Elements Properties	Metric	English	Comments
Fluorine, F	70.1 %	70.1 %	

Descriptive Properties	Value	Comments
Color	Opaque Off-White	
MH, Maximum Torque	24 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 200°C
	25.5 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

<b>ML Minimum Torque Descriptive Properties</b>	<b>1.7 inch-lb Value</b>	<b>100 cpm, 0.5° Arc, 6 Minutes @ 177°C Comments</b>
	1.7 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 200°C
<b>Solubility</b>	<b>Ketones and Esters</b>	
t`50, Time to 50% cure	0.5 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 200°C
t`50, Time to 50% cure	1.6 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t`90 - Time to 90% cure	0.6 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 200°C
	2 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	0.4 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 200°C
	1.3 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

## Contact Songhan Plastic Technology Co.,Ltd.

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