

3M Dyneon™ FE 5830Q Fluoroelastomer

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

Material Notes:

3M™ Dyneon™ Fluoroelastomer FE 5830Q can be compounded using standard water cooled internal mixers or two-roll mills with standard fillers and ingredients utilized in typical fluoroelastomer formulations. The “dry” ingredients should be blended before adding to the masticated gum. For best results, Dyneon FE 5830Q should be banded on the mill several minutes prior to adding the blended dry ingredients. Once mixed, the compounded stocks have good scorch resistance and storage stability
Composition: Ter-polymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene
Highest fluorine level extrusion grade Dyneon fluoroelastomer available
Process targets: extrusions only
Proprietary incorporated cure technology
Produces smooth extrudates without the use of processing aids
Can be formulated to meet -40°C mandrel bend fuel hose specifications
Can be formulated to yield good permeation resistance to automotive fuels
Highest fluorine level extrusion grade Dyneon fluoroelastomer available
 Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FE-5830Q-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.90 g/cc	1.90 g/cc	
Mooney Viscosity	33 @Temperature 121 °C	33 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	11.0 MPa	1600 psi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	250 %	250 %	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00441 GPa	0.640 ksi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	44 %	44 %	Aged 70 hours @ 200°C, -214 O-rings; ASTM D395 Method B

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

Component Elements Properties	Metric	English	Comments
Fluorine, F	70.5 %	70.5 %	

Descriptive Properties	Value	Comments
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Color Descriptive Properties	Opaque Off-White Value	Comments
MH, Maximum Torque	14.5 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ML, Minimum Torque	1 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Solubility	Ketones and Esters	
t`50, Time to 50% cure	2.3 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t`90 - Time to 90% cure	3.3 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	2 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China