

3M Dyneon™ FE 5730 Fluoroelastomer

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

Material Notes:

Composition: Ter-polymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene
Lower fluorine version of FE 5830Q
Process targets: extrusion only
Proprietary incorporated cure technology
Produces smooth extrudates without the use of processing aides
Can be formulated to meet -40°C mandrel bend fuel hose specifications
Can be formulated to yield good permeation resistance to automotive fuels
Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FE-5730-Fluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.87 g/cc	1.87 g/cc	
Mooney Viscosity	36 @Temperature 121 °C	36 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	71	71	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	10.1 MPa	1460 psi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	330 %	330 %	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00259 GPa	0.375 ksi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	45 %	45 %	Aged 70 hours @ 200°C

Thermal Properties	Metric	English	Comments
Transformation Temperature	-12.0 °C	10.4 °F	TR10; ASTM D1329

Component Elements Properties	Metric	English	Comments
Fluorine, F	69.2 %	69.2 %	

Descriptive Properties	Value	Comments
Color	Opaque Off-White	
MH, Maximum Torque	9.2 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ML, Minimum Torque	1.1 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

Solubility Descriptive Properties	Ketones and Esters Value	Comments
t`50, Time to 50% cure	1.4 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t`90 - Time to 90% cure	1.9 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min	1.3 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

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