

3M Dyneon™ Aflas® FA-100H PTFE Fluoroelastomer (discontinued **)

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

Material Notes:

Data provided by the manufacturer, Dyneon LLC. Non-incorporated cure polymer, 57%F in polymer with 19% Medium Thermal Carbon Black (N990), 4% Triallyl Isocyanurate (TAIC), 1% Percadox™ 14, 1% Sodium Stearate. Compression molded goods in demanding environments (i.e. oilfield). Best resistance to gas blistering and extrusion under high differential pressures. Used in Aggressive Oil/Coolant/Base Resistant Applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-Aflas-FA-100H-PTFE-Fluoroelastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	
Oxygen Transmission	150 cc-mm/m ² -24hr-atm	381 cc-mil/100 in ² -24hr-atm	
Mooney Viscosity	110 @Temperature 100 °C	110 @Temperature 212 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	71	71	
Tensile Strength, Ultimate	19.0 MPa	2760 psi	
Tensile Strength, Yield	2.80 MPa	406 psi	M100
Elongation at Break	375 %	375 %	
Coefficient of Friction, Dynamic	0.70	0.70	
Compression Set	50 % @Temperature 200 °C	50 % @Temperature 392 °F	70 hr; ASTM D395B

Thermal Properties	Metric	English	Comments
CTE, linear	240 µm/m-°C @Temperature 20.0 °C	133 µin/in-°F @Temperature 68.0 °F	
Specific Heat Capacity	1.67 J/g-°C	0.399 BTU/lb-°F	
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	
Glass Transition Temp, Tg	3.00 °C	37.4 °F	TR10

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 - 1.00e+16 ohm-cm	1.00e+15 - 1.00e+16 ohm-cm	
Dielectric Constant	2.5 @Frequency 6.00e+7 Hz	2.5 @Frequency 6.00e+7 Hz	
Dielectric Strength	23.0 kV/mm	584 kV/in	

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