Polikim EFALON® C-25 PTFE, 25% Glass Filled

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Glass Filled, Molded

Material Notes:

C15 and C25 have less thermal expansion, higher wear resistance and less deformation under load compared to virgin Efalon® (PTFE).

Applications: Seals, Seal rings, gaskets, valve sets, piston rings, bearings.Information provided by Polikim Polimer.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Polikim-EFALON-C-25-PTFE-25-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	2.20 - 2.30 g/cc	0.0795 - 0.0831 lb/in³	ASTM D792
Deformation	2.6 - 2.8 % @Temperature 150 °C, Time 86400 sec, Pressure 0.981 MPa	2.6 - 2.8 % @Temperature 302 °F, Time 24.0 hour, Pressure 142 psi	total
	4.0 - 8.0 % @Temperature 23.0 °C, Time 86400 sec, Pressure 13.7 MPa	4.0 - 8.0 % @Temperature 73.4 °F, Time 24.0 hour, Pressure 1990 psi	permanent; ASTM D621
	9.5 - 13.5 % @Temperature 23.0 °C, Time 86400 sec, Pressure 13.7 MPa	9.5 - 13.5 % @Temperature 73.4 °F, Time 24.0 hour, Pressure 1990 psi	total; ASTM D621
	15 - 16 % @Temperature 150 °C, Time 86400 sec, Pressure 4.90 MPa	15 - 16 % @Temperature 302 °F, Time 24.0 hour, Pressure 711 psi	total

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64 - 68	64 - 68	ASTM D2240
Tensile Strength, Ultimate	14.7 - 23.5 MPa	2130 - 3410 psi	ASTM D638
Elongation at Break	200 - 270 %	200 - 270 %	ASTM D638
Compressive Strength	6.37 - 6.86 MPa	925 - 996 psi	1% Deformation; ASTM D695
Izod Impact, Notched (ISO)	12.0 - 15.0 kJ/m²	5.71 - 7.14 ft-lb/in²	ASTM D256
Coefficient of Friction	0.090	0.090	
Coefficient of Friction, Static	0.070	0.070	
Limiting Pressure Velocity	0.00351 - 0.00360 MPa-m/sec	100 - 103 psi-ft/min	3 m/min

Mechanical Properties	Metric	English	Comments
	0.00481 - 0.00491 MPa-m/sec	126 - 140 psi-ft/min	30 m/min
	0.00540 - 0.00556 MPa-m/sec	154 - 159 psi-ft/min	300 m/min

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 - 115 µm/m-°C @Temperature 25.0 - 100 °C	38.9 - 63.9 µin/in-°F @Temperature 77.0 - 212 °F	ASTM D696
	75.0 - 140 µm/m-°C @Temperature 25.0 - 200 °C	41.7 - 77.8 µin/in-°F @Temperature 77.0 - 392 °F	ASTM D696
	85.0 - 180 µm/m-°C @Temperature 25.0 - 300 °C	47.2 - 100 µin/in-°F @Temperature 77.0 - 572 °F	ASTM D696
Thermal Conductivity	0.418 - 0.460 W/m-K	2.90 - 3.19 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	270 °C	518 °F	continuous
Minimum Service Temperature, Air	-260 °C	-436 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	50% rel. humidity; ASTM D257
Dielectric Constant	2.5 - 2.8 @Frequency 50.0 - 1.00e+7 Hz	2.5 - 2.8 @Frequency 50.0 - 1.00e+7 Hz	ASTM D150
Dielectric Strength	13.0 - 16.0 kV/mm @Thickness 0.100 mm	330 - 406 kV/in @Thickness 0.00394 in	short term; ASTM D149
Dielectric Loss Index	0.00070 @Frequency 50.0 Hz	0.00070 @Frequency 50.0 Hz	dry

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