

Polikim EFALON® B-60 PTFE, 60% Bronze Filled

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Bronze Filled

Material Notes:

Bronze-filled Eفالon® (PTFE) has better heat insulation, less thermal expansion, higher wear resistance properties and less deformation under load compared to virgin Eفالon®. Applications: bearings, piston rings, valve sets, valve components. Information provided by Polikim Polimer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polikim-EFALON-B-60-PTFE-60-Bronze-Filled.php

Physical Properties	Metric	English	Comments
Density	3.80 - 4.00 g/cc	0.137 - 0.145 lb/in³	ASTM D792
Deformation	1.0 - 1.1 %	1.0 - 1.1 %	total
	@Temperature 150 °C, Time 86400 sec, Pressure 0.981 MPa	@Temperature 302 °F, Time 24.0 hour, Pressure 142 psi	
	1.5 - 2.0 %	1.5 - 2.0 %	permanent; ASTM D621
	@Temperature 23.0 °C, Time 86400 sec, Pressure 13.7 MPa	@Temperature 73.4 °F, Time 24.0 hour, Pressure 1990 psi	
	3.7 - 4.8 %	3.7 - 4.8 %	total; ASTM D621
	@Temperature 23.0 °C, Time 86400 sec, Pressure 13.7 MPa	@Temperature 73.4 °F, Time 24.0 hour, Pressure 1990 psi	
	9.0 - 10 %	9.0 - 10 %	total
	@Temperature 150 °C, Time 86400 sec, Pressure 4.90 MPa	@Temperature 302 °F, Time 24.0 hour, Pressure 711 psi	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 - 70	65 - 70	ASTM D2240
Tensile Strength, Ultimate	13.7 - 21.6 MPa	1990 - 3130 psi	ASTM D638
Elongation at Break	110 - 220 %	110 - 220 %	ASTM D638
Compressive Strength	10.3 - 10.8 MPa	1490 - 1560 psi	1% Deformation; ASTM D695
Izod Impact, Notched (ISO)	10.0 - 11.0 kJ/m²	4.76 - 5.23 ft-lb/in²	ASTM D256
Coefficient of Friction	0.13	0.13	
Coefficient of Friction, Static	0.070	0.070	

Limiting Pressure Velocity Mechanical Properties	Metric 0.004905 - 0.005232 MPa-m/sec	English 140.0 - 149.4 psi- ft/min	3 m/min Comments
	0.00638 - 0.00654 MPa-m/sec	182 - 187 psi-ft/min	30 m/min
	0.00736 - 0.00900 MPa-m/sec	210 - 257 psi-ft/min	300 m/min

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 - 90.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	41.7 - 50.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 25.0 - 100 $^\circ\text{C}$	@Temperature 77.0 - 212 $^\circ\text{F}$	
	100 - 115 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	55.6 - 63.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 25.0 - 200 $^\circ\text{C}$	@Temperature 77.0 - 392 $^\circ\text{F}$	
	130 - 140 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	72.2 - 77.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 25.0 - 300 $^\circ\text{C}$	@Temperature 77.0 - 572 $^\circ\text{F}$	
Thermal Conductivity	0.711 - 0.837 W/m-K	4.93 - 5.80 BTU-in/hr-ft ² - $^\circ\text{F}$	
Maximum Service Temperature, Air	270 $^\circ\text{C}$	518 $^\circ\text{F}$	continuous
Minimum Service Temperature, Air	-260 $^\circ\text{C}$	-436 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+7$ ohm-cm	$\geq 1.00\text{e}+7$ ohm-cm	ASTM D257
Surface Resistance	$\geq 1.00\text{e}+9$ ohm	$\geq 1.00\text{e}+9$ ohm	50% rel. humidity; ASTM D257

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