

Guarniflon MFA Fluoropolymer

Category : Polymer , Thermoplastic , Fluoropolymer , TFE/Perfluoromethylvinylether Copolymer (MFA)

Material Notes:

It's a semi-crystalline fully-fluorinated melt processable fluoropolymer which offer the highest temperature rating and broadest chemical resistance of all melt processable fluoropolymers. It is an ideal choice for extreme thermal and chemical environments. MFA exhibits the outstanding thermal behaviour and chemical resistance found in PTFE, PFA and FEP. In addition, parts made with MFA have been shown to have smooth finished surfaces. This makes MFA a good candidate for the semiconductor, electronics and biologic applications. Information provided by Guarniflon®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Guarniflon-MFA-Fluoropolymer.php

Physical Properties	Metric	English	Comments
Density	2.12 - 2.17 g/cc	0.0766 - 0.0784 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 60	55 - 60	ASTM D2240
Tensile Strength	>= 25.0 MPa	>= 3630 psi	ASTM D638
Elongation at Break	>= 300 %	>= 300 %	ASTM D638
Flexural Modulus	0.600 GPa	87.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	120 - 200 $\mu\text{m/m-}^\circ\text{C}$	66.7 - 111 $\mu\text{in/in-}^\circ\text{F}$	25 $^\circ\text{C}$ to 100 $^\circ\text{C}$; ASTM D696
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² - $^\circ\text{F}$	ASTM D177
Melting Point	260 - 290 $^\circ\text{C}$	500 - 554 $^\circ\text{F}$	
Maximum Service Temperature, Air	250 $^\circ\text{C}$	482 $^\circ\text{F}$	
Minimum Service Temperature, Air	-200 $^\circ\text{C}$	-328 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Strength	30.0 - 40.0 kV/mm	762 - 1020 kV/in	ASTM D149

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