3M Dyneon™ TFM™ 1705 PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Non-free-flowing resinReduced, adjusted melt viscosityIncreased gel stabilityReduced cold flowLower porosity and permeabilityLower void contentExcellent non-stick and dielectric propertiesHigher elastic modulusCompression molded productsLarge billetsExtremely thin skived filmsDiaphragms, high-pressure hoses and other tough flex fatigue applicationsSemiconductor and chemical processing system componentsInformation provided by Dyneon, A 3M Company

Order this product through the following link:
http://www.lookpolymers.com/polymer_3M-Dyneon-TFM-1705-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.16 g/cc	2.16 g/cc	@ 23°C, Sintering Molding; ASTM D4894-98a
Bulk Density	0.420 g/cc	0.0152 lb/in³	ASTM D4894-98a
Particle Size	25 µm	25 µm	average; ASTM D4894-98a
Deformation	4.5 %	4.5 %	2175 psi - permanent, 23°C, Sintering Molding; ASTM D621
	9.0 %	9.0 %	2175 psi - 24 hrs, 23°C, Sintering Molding; ASTM D621
	10 %	10 %	2175 psi - 100 hrs, 23°C, Sintering Molding; ASTM D621

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.1 MPa	4800 psi	Sintered Molding; ASTM D4894-98a
Elongation at Break	450 %	450 %	Sintered Molding; ASTM D4894-98a
Tensile Modulus	0.6498 GPa	94.25 ksi	Sintered Molding; ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	317 - 337 °C	603 - 639 °F	second; ASTM D4894-98a
	332 - 352 °C	630 - 666 °F	initial; ASTM D4894-98a
Maximum Service Temperature, Air	260 °C	500 °F	
Minimum Service Temperature, Air	-200 °C	-330 °F	
Flammability, UL94	V-0	V-0	
Shrinkage	5.80 % @Temperature 23.0 °C	5.80 % @Temperature 73.4 °F	Sintering Moldings; ASTM D4894-98a

Thermal Properties Electrical Properties	Metric Metric	English English	Comments Comments
Dielectric Strength	146 kV/mm	3710 kV/in	ASTM D149-95a

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China