

3M Dyneon™ TFM™ 1700 PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Meets ASTM D4894 Type III, Grade 1 resin
 Non-free-flowing compression molding powder
 Very fine particle size
 Dense polymer structure, low permeability
 Improved weldability
 Low deformation under load
 Good electrical and mechanical properties
 Increased modulus of elasticity
 Low molding pressure
 Excellent for production of very thin films with superior permeation properties
 Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-TFM-1700-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/in ³	ASTM D4894-98a
Particle Size	25 µm	25 µm	average; ASTM D4894-98a
Deformation	4.0 %	4.0 %	2175 psi - permanent, 23°C, Sintering Molding; ASTM D621
	8.0 %	8.0 %	2175 psi - 24 hrs, 23°C, Sintering Molding; ASTM D621
	9.0 %	9.0 %	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 %	5.80 %	Sintering Moldings; ASTM D4894-98a
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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

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