

3M Dyneon™ TFM™ 1600 PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Meets ASTM D4894 Type III, Grade 2 resin Molding and ram extrusion powder with very good free flowing properties Good metering properties Good mold filling behavior Improved particle coalescence Denser polymer structure Lower permeability Substantially lower deformation under load Improved weldability Good electrical and mechanical properties Increased modulus of elasticity Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-TFM-1600-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	0.830 g/cc	0.0300 lb/in ³	ASTM D4894-98a
Particle Size	450 µm	450 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	31.7 MPa	4600 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	3.50 %	3.50 %	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	102.4 kV/mm	2601 kV/in	ASTM D149-95a

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