

3M Dyneon™ TFM™ 1630 PTFE (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Semi-free-flowing resin for convenient handling
High bulk density leading to more economical processing
Very dense polymer structure; low permeability
Good electrical and mechanical properties
Smoother surfaces
Substantially lower deformation under load
Improved weldability
Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-TFM-1630-PTFE-nbspdiscontinued-.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	0.840 g/cc	0.0303 lb/in ³	ASTM D4894-98a
Particle Size	200 µm	200 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	29.0 MPa	4210 psi	Sintered Molding; ASTM D4894-98a
	34.0 MPa	4930 psi	Sintered Molding; DIN 53455 (film, 0.2mm)
Elongation at Break	400 %	400 %	Sintered Molding; ASTM D4894-98a
	620 %	620 %	Sintered Molding; DIN 53455 (film, 0.2mm)
Tensile Modulus	0.648 GPa	94.0 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	

Thermal Properties	Metric	English	Comments
Shrinkage	@Temperature 23.0 °C	@Temperature 73.4 °F	Sintering Moldings; ASTM D4894-98a

Electrical Properties	Metric	English	Comments
Dielectric Strength	106.3 kV/mm	2700 kV/in	ASTM D149-95a

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