

3M Dyneon™ TF 1641 PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Meets ASTM D4894 Type IV, Grade 2 resin Molding and ram extrusion powder very good free-flow properties Good metering properties Good mold filling behavior Good electrical and mechanical properties Very good surface quality of isostatic moldings Excellent for small parts Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-TF-1641-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.15 g/cc	2.15 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	11 %	11 %	2175 psi - permanent, 23°C, Sintering Molding; ASTM D621
	15 %	15 %	2175 psi - 24 hrs, 23°C, Sintering Molding; ASTM D621
	17 %	17 %	2175 psi - 100 hrs, 23°C, Sintering Molding; ASTM D621

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 27.58 MPa	>= 4000 psi	Sintered Molding; ASTM D4894-98a
Elongation at Break	350 %	350 %	Sintered Molding; ASTM D4894-98a
Tensile Modulus	0.600 GPa	87.0 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	
Shrinkage	2.80 %	2.80 %	Sintering Moldings; ASTM D4894-98a
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	98.4 kV/mm	2500 kV/in	ASTM D149-95a

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