



## TFM™ 1700 PTFE Modified PTFE

Dyneon™ TFM™ PTFE is a chemically modified PTFE that offers enhanced properties for the electrical, mechanical, automotive, semiconductor, and chemical industries, while retaining all of the proven advantages of conventional PTFE.

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 <sup>3</sup>	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
Electrical Properties	Metric	English	Comments
Dielectric Strength	146 kV/mm	3710 kV/in	ASTM D149-95a
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	5.8 % @Temperature 23.0 °C	5.8 % @Temperature 73.4 °F	Sintering Moldings; ASTM D4894-98a

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format.

<http://www.professionalplastics.com/TFM1700PTFE>

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