

## 3M Dyneon™ TFM™ X 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-X-1630-PTFE-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_3M-Dyneon-TFM-X-1630-PTFE-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.16 g/cc	2.16 g/cc	ASTM D4894-98a
Bulk Density	0.840 g/cc	0.0303 lb/in <sup>3</sup>	ASTM D4894-98a
Particle Size	200 µm	200 µm	average; ASTM D4894-98a
Deformation	4.0 %	4.0 %	2175 psi - permanent; ASTM D621
	8.0 %	8.0 %	2175 psi - 24 hrs; ASTM D621
	9.0 %	9.0 %	2175 psi - 100 hrs; ASTM D621

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	29.0 MPa	4210 psi	on sintered molding; ASTM D4894-98a
	34.0 MPa	4930 psi	Sintered Molding; DIN 53455 (film, 0.2 mm)
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	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	4.0 %	4.0 %	ASTM D4894-98a

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Strength	106 kV/mm	2690 kV/in	

## Contact Songhan Plastic Technology Co.,Ltd.

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