

## 3M Dyneon™ TF 1645 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 Used in automatic, isostatic and general compression molding Excellent for finished molded parts Information provided by Dyneon, A 3M Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-TF-1645-PTFE.php](http://www.lookpolymers.com/polymer_3M-Dyneon-TF-1645-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 <sup>3</sup>	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	2.60 %	2.60 %	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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China