

3M Dyneon™ TFM™ 1605 Modified PTFE Powder (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Molded

Material Notes:

Type III, gr. 2 PTFE. Second-generation PTFE that is a chemically modified to allow new designs and processing methods. Very good free-flowing powder properties. Data provided by Dyneon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-TFM-1605-Modified-PTFE-Powder-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	2.16 g/cc	0.0780 lb/in ³	Sintered moldings; ASTM D4894/D4895
Apparent Bulk Density	0.820 g/cc	0.0296 lb/in ³	DIN 53 466
Linear Mold Shrinkage	0.035 cm/cm	0.035 in/in	cylinder; per Dyneon method

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	Sintered molding, DIN 53 505
Tensile Strength, Ultimate	33.0 MPa @Thickness 0.200 mm	4790 psi @Thickness 0.00787 in	Sintered moldings; ASTM D4894/4895
Elongation at Break	560 %	560 %	Sintered Molding; ASTM D4894
Tensile Modulus	0.650 GPa	94.3 ksi	Sintered Molding, DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C @Temperature 30.0 - 100 °C	66.7 µin/in-°F @Temperature 86.0 - 212 °F	
	140 µm/m-°C @Temperature 30.0 - 200 °C	77.8 µin/in-°F @Temperature 86.0 - 392 °F	
	170 µm/m-°C @Temperature 30.0 - 300 °C	94.4 µin/in-°F @Temperature 86.0 - 572 °F	
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² -°F	DIN 52 612
Maximum Service Temperature, Air	260 °C	500 °F	Continuous Service Temp
Minimum Service Temperature, Air	-200 °C	-328 °F	Continuous Service Temp

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+17 ohm	1.00e+17 ohm	IEC 60093
Dielectric Strength	65.0 kV/mm	1650 kV/in	200µm film; IEC 60243-1

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