

3M Dyneon™ TFM™ 1705 Modified PTFE Powder (discontinued **)

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

Material Notes:

Type II, gr. 1 PTFE. Dyneon™ TFM™ 1705 PTFE is a second-generation modified polytetrafluoro-ethylene (PTFE) that maintains the exceptional chemical and heat resistance properties of first-generation PTFE, but with a significantly lower melt viscosity giving better particle fusion during sintering and smoother surfaces. Dyneon TFM 1705 PTFE has an adjusted melt viscosity. This gives higher stability for better performance in large billet production with reduced scrap in film skiving. It is a non-free-flowing compression molding powder and is the material of choice for diaphragms and other tough flex fatigue applications. Data provided by Dyneon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-TFM-1705-Modified-PTFE-Powder-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	2.16 g/cc	0.0780 lb/in ³	ASTM D4894
Apparent Bulk Density	0.420 g/cc	0.0152 lb/in ³	ASTM D4894
Particle Size	25 µm	25 µm	ASTM D4894
Deformation	2.0 %	2.0 %	ASTM D621
	@Pressure 15.00 MPa	@Pressure 2175 psi	
	4.0 %	4.0 %	ASTM D621
	@Time 86400 sec, Pressure 15.00 MPa	@Time 24.0 hour, Pressure 2175 psi	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	Initial; ASTM D2240
	58	58	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	333 MPa	48300 psi	ASTM D4894
Elongation at Break	450 %	450 %	ASTM D4894
Tensile Modulus	0.650 GPa	94.3 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	59.0 µm/m-°C	32.8 µin/in-°F	ASTM E831
	@Temperature 30.0 - 100 °C	@Temperature 86.0 - 212 °F	
	77.0 µm/m-°C	42.8 µin/in-°F	ASTM E831

Thermal Properties	Metric @Temperature 100 - 200 °C	English @Temperature 212 - 392 °F	Comments
	93.0 µm/m-°C	51.7 µin/in-°F	ASTM E831
	@Temperature 200 - 300 °C	@Temperature 392 - 572 °F	
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft²-°F	ASTM E831
	@Temperature 100 °C	@Temperature 212 °F	
	0.230 W/m-K	1.60 BTU-in/hr-ft²-°F	ASTM E831
	@Temperature 250 °C	@Temperature 482 °F	
Shrinkage	5.8 %	5.8 %	ASTM D4894

Electrical Properties	Metric	English	Comments
Dielectric Strength	3.70 kV/mm	94.0 kV/in	ASTM D 149

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