

3M Dyneon™ TF 4103 PTFE 15% Glass Fiber Filled (discontinued **)

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

Material Notes:

Type II PTFE. Applications include valve seats, bearings, seals/gaskets, moldings, piston rings. Data provided by Dyneon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-TF-4103-PTFE-15-Glass-Fiber-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	2.21 g/cc	0.0798 lb/in ³	ASTM D4894
Apparent Bulk Density	0.820 g/cc	0.0296 lb/in ³	ASTM D4894
Particle Size	800 µm	800 µm	ASTM D4894
Deformation	4.0 %	4.0 %	ASTM D621
	@Pressure 15.00 MPa	@Pressure 2175 psi	
	6.0 %	6.0 %	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
	57	57	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	20.7 MPa	3000 psi	ASTM D4894
Elongation at Break	375 %	375 %	ASTM D4894
Tensile Modulus	0.0965 GPa	14.0 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	57.0 µm/m-°C	31.7 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
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
	95.0 µm/m-°C	52.8 µin/in-°F	ASTM E831
	@Temperature 200 -	@Temperature 392 -	

Thermal Properties	300 °C Metric	572 °F English	Comments
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ft²-°F	ASTM E1530
	@Temperature 100 °C	@Temperature 212 °F	
	0.270 W/m-K	1.87 BTU-in/hr-ft²-°F	ASTM E1530
	@Temperature 250 °C	@Temperature 482 °F	
Shrinkage	2.2 %	2.2 %	ASTM D4894

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