

3M Dyneon™ CC603 PTFE, 15% Fiberglass Filled (discontinued **)

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

Material Notes:

Product Form: White, pelletized free-flowing powder. Applications include bearings, valve seats, seals. Data provided by Dyneon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-CC603-PTFE-15-Fiberglass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Bulk Density	0.720 g/cc	0.0260 lb/in ³	ASTM D4894
Density	2.20 g/cc	0.0795 lb/in ³	ASTM D4894
Particle Size	750 µm	750 µm	ASTM D4894
Deformation	4.0 %	4.0 %	ASTM D621
	@Pressure 15.00 MPa	@Pressure 2175 psi	
	7.0 %	7.0 %	ASTM D621
	@Time 86400 sec, Pressure 15.00 MPa	@Time 24.0 hour, Pressure 2175 psi	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	value after 15 sec; ASTM D2240
	62	62	initial value; ASTM D2240
Tensile Strength at Break	20.7 MPa	3000 psi	ASTM D4894
Elongation at Break	280 %	280 %	ASTM D4894
Tensile Modulus	0.0931 GPa	13.5 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	57.0 µm/m-°C	31.7 µin/in-°F	
	@Temperature 30.0 - 100 °C	@Temperature 86.0 - 212 °F	
	139 µm/m-°C	77.0 µin/in-°F	ASTM E831
@Temperature 100 - 200 °C	@Temperature 212 - 392 °F		
	171 µm/m-°C	95.0 µin/in-°F	ASTM E831
	@Temperature 200 - 300 °C	@Temperature 392 - 572 °F	

Thermal Properties	0.300 W/m-K Metric	2.08 BTU-in/hr-ft ² -°F English	Comments
	@Temperature 250 °C	@Temperature 482 °F	
	0.320 W/m-K	2.22 BTU-in/hr-ft ² -°F	ASTM E1530
	@Temperature 100 °C	@Temperature 212 °F	
Shrinkage	1.9 %	1.9 %	ASTM D4894

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