

3M Dyneon™ CC503 PTFE, 15% Mineral Filled (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-CC503-PTFE-15-Mineral-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Bulk Density	0.685 g/cc	0.0247 lb/in ³	ASTM D4894
Density	2.26 g/cc	0.0816 lb/in ³	ASTM D4894
Particle Size	750 µm	750 µm	ASTM D4894
Deformation	3.0 %	3.0 %	ASTM D621
	@Pressure 15.00 MPa	@Pressure 2175 psi	
	5.0 %	5.0 %	ASTM D621
	@Time 86400 sec, Pressure 15.00 MPa	@Time 24.0 hour, Pressure 2175 psi	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	value after 15 sec; ASTM D2240
	65	65	initial value; ASTM D2240
Tensile Strength at Break	19.3 MPa	2800 psi	ASTM D4894
Elongation at Break	250 %	250 %	ASTM D4894
Tensile Modulus	0.121 GPa	17.5 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 µm/m-°C	30.6 µin/in-°F	ASTM E831
	@Temperature 30.0 - 100 °C	@Temperature 86.0 - 212 °F	
	131 µm/m-°C	73.0 µin/in-°F	ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
	160 µm/m-°C	89.0 µin/in-°F	ASTM E831
	@Temperature 200 - 300 °C	@Temperature 392 - 572 °F	

Thermal Properties	Metric U.300 W/m-K	English 2.36 BTU-in/hr-ft ² -°F	Comments
Thermal Conductivity	@Temperature 250 °C	@Temperature 482 °F	ASTM E1530
	0.340 W/m-K	2.36 BTU-in/hr-ft ² -°F	ASTM E1530
	@Temperature 100 °C	@Temperature 212 °F	
Shrinkage	3.5 %	3.5 %	ASTM D4894

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