

3M Dyneon™ CC698 PTFE 20% Fiberglass/Carbon Filled (discontinued **)

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

Material Notes:

Product Form: Black, pelletized powder. Applications include valve seats.Data provided by Dyneon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-CC698-PTFE-20-FiberglassCarbon-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	2.18 g/cc	0.0788 lb/in³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	value after 15 sec; ASTM D2240
	66	66	initial value; ASTM D2240
Tensile Strength, Ultimate	20.7 MPa	3000 psi	ASTM D4745
Elongation at Break	150 %	150 %	ASTM D4894
Flexural Yield Strength	<= 31.0 MPa	<= 4500 psi	ASTM D790
Compressive Yield Strength	10.8 MPa	1570 psi	ASTM D695
Compressive Modulus	0.570 GPa	82.7 ksi	ASTM D695
Coefficient of Friction, Dynamic	0.26	0.26	ASTM D3702
Coefficient of Friction, Static	0.23	0.23	ASTM D3702
K (wear) Factor	18.5 x 10 ⁻⁸ mm³/N-M	9.20 x 10 ⁻¹⁰ in³-min/ft-lb-hr	at 5000 psi - fpm PV; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	162 µm/m-°C	90.0 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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