

3M Dyneon™ CC655 PTFE, 50% Stainless Steel Filled (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Type II, free flowing. Typical Applications: Finished or semi-finished parts: sheets, rods, tubes, billets for skiving of films or machining into complex shapes. Information provided by the Dyneon division of 3M.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-CC655-PTFE-50-Stainless-Steel-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.33 g/cc	3.33 g/cc	ASTM D4894
Bulk Density	1.10 g/cc	0.0397 lb/in ³	ASTM D4894
Particle Size	750 µm	750 µm	ASTM D4894
Deformation	3.0 %	3.0 %	permanent; 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	71	71	Initial; ASTM D2240
	65	65	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	20.7 MPa	3000 psi	ASTM D4894
Elongation at Break	220 %	220 %	ASTM D4894
Tensile Modulus	0.176 GPa	25.5 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	82.8 µm/m-°C	46.0 µin/in-°F	ASTM E831
	@Temperature 30.0 - 100 °C	@Temperature 86.0 - 212 °F	
	113 µm/m-°C	63.0 µin/in-°F	ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
	140 µm/m-°C	78.0 µin/in-°F	ASTM E831

Thermal Properties	Metric @Temperature 200 - 300 °C	English @Temperature 392 - 572 °F	Comments
Thermal Conductivity	0.390 W/m-K	2.71 BTU-in/hr-ft²-°F	ASTM E1530
	@Temperature 250 °C	@Temperature 482 °F	
	0.400 W/m-K	2.78 BTU-in/hr-ft²-°F	ASTM E1530
	@Temperature 100 °C	@Temperature 212 °F	
Shrinkage	1.6 %	1.6 %	ASTM D4894

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