

## 3M Dyneon™ CCM605 PTFE, 25% Glass Filled (discontinued \*\*)

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

### 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-CCM605-PTFE-25-Glass-Filled-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_3M-Dyneon-CCM605-PTFE-25-Glass-Filled-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.24 g/cc	2.24 g/cc	ASTM D4894
Bulk Density	0.710 g/cc	0.0257 lb/in <sup>3</sup>	ASTM D4894
Particle Size	750 µm	750 µm	ASTM D4894
Deformation	1.0 %	1.0 %	permanent; ASTM D621
	@Pressure 15.00 MPa	@Pressure 2175 psi	
	2.0 %	2.0 %	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	
	@Time 15.0 sec	@Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	15.2 MPa	2200 psi	ASTM D4894
Elongation at Break	300 %	300 %	ASTM D4894
Tensile Modulus	0.165 GPa	24.0 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	73.8 µm/m-°C	41.0 µin/in-°F	ASTM E831
	@Temperature 30.0 - 100 °C	@Temperature 86.0 - 212 °F	
	91.8 µm/m-°C	51.0 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	@Temperature 200 - 300 °C Metric	@Temperature 392 - 572 °F English	Comments
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft <sup>2</sup> -°F	ASTM E1530
	@Temperature 100 °C	@Temperature 212 °F	
	0.260 W/m-K	1.80 BTU-in/hr-ft <sup>2</sup> -°F	ASTM E1530
	@Temperature 250 °C	@Temperature 482 °F	
Shrinkage	2.8 %	2.8 %	ASTM D4894

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