

3M Dyneon™ CC191-HE Custom Fluoropolymer Compound (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer

Material Notes:

This compound consists of a mixture of high elongation 23% carbon / 2% graphite blended with PTFE. Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-CC191-HE-Custom-Fluoropolymer-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.00 g/cc	2.00 g/cc	ASTM D4894
Bulk Density	0.440 g/cc	0.0159 lb/in ³	ASTM D4894
Particle Size	25 µm	25 µm	ASTM D4894
Deformation	2.0 %	2.0 %	ASTM D621
	@Pressure 15.00 MPa	@Pressure 2175 psi	
	4.0 %	4.0 %	ASTM D621
	@Time 86400 sec, Pressure 15.00 MPa	@Time 24.0 hour, Pressure 2175 psi	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	Initial; ASTM D2240
	63	63	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	13.8 MPa	2000 psi	ASTM D4894
Elongation at Break	160 %	160 %	ASTM D4894
Tensile Modulus	0.217 GPa	31.5 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	88.2 µm/m-°C	49.0 µin/in-°F	ASTM E831
	@Temperature 30.0 - 100 °C	@Temperature 86.0 - 212 °F	
	119 µm/m-°C	66.0 µin/in-°F	ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
	144 µm/m-°C	80.0 µin/in-°F	ASTM E831

Thermal Properties	@Temperature 200 - Metric 300 °C	@Temperature 392 - English 575 °F	Comments
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft ² -°F	ASTM E1530
	@Temperature 100 °C	@Temperature 212 °F	
	0.370 W/m-K	2.57 BTU-in/hr-ft ² -°F	ASTM E1530
	@Temperature 250 °C	@Temperature 482 °F	
Shrinkage	1.7 %	1.7 %	ASTM D4894

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