

3M Dyneon™ CC646/S Custom Compound (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer

Material Notes:

This compound consists of a mixture of 60% bronze blended with PTFE. Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-CC646S-Custom-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.92 g/cc	3.92 g/cc	ASTM D4894
Bulk Density	1.20 g/cc	0.0434 lb/in ³	ASTM D4894
Particle Size	750 µm	750 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	71	71	Initial; ASTM D2240
	65	65	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	16.5 MPa	2400 psi	ASTM D4894
Elongation at Break	110 %	110 %	ASTM D4894
Tensile Modulus	0.0241 GPa	3.50 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	75.6 µm/m-°C	42.0 µin/in-°F	ASTM E831
	@Temperature 30.0 - 100 °C	@Temperature 86.0 - 212 °F	
	112 µm/m-°C	62.0 µin/in-°F	ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
	140 µm/m-°C	78.0 µin/in-°F	ASTM E831
	@Temperature 200 -	@Temperature 392 -	

Thermal Properties	300 °C Metric	572 °F English	Comments
Thermal Conductivity	0.390 W/m-K	2.71 BTU-in/hr-ft ² -°F	ASTM E1530
	@Temperature 250 °C	@Temperature 482 °F	
	0.470 W/m-K	3.26 BTU-in/hr-ft ² -°F	ASTM E1530
	@Temperature 100 °C	@Temperature 212 °F	
Shrinkage	2.0 %	2.0 %	ASTM D4894

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