

XYCOMP® Composite 1000-03

Polyetheretherketone
Greene, Tweed & Co.

Message:

Greene, Tweed offers precision plastics components for a variety of demanding, semiconductor applications. These components are made from a full range of high-performance thermoplastic materials, including our Xycomp® composite materials. Xycomp is ideally suited to replace metal or ceramic compounds due to its high strength, low weight, corrosion resistance and dimensional stability. Xycomp materials may also be used in high-pressure and high-temperature (up to 250°C/482°F) applications.

The optimal Xycomp material for a specific application is determined by the unique combination of plastic materials, fibers and fiber orientation, as well as manufacturing techniques. Greene, Tweed provides the necessary application evaluation services to assist in choosing the best performance characteristics.

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Good Chemical Resistance		
	Good Corrosion Resistance		
	Good Dimensional Stability		
	Good Wear Resistance		
	High Heat Resistance		
	High Impact Resistance		
	High Strength		
	Vibration Damping		
Uses	Metal Replacement		
	Semiconductor Molding Compounds		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	
Water Absorption (24 hr)	1.0E-3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	2070	MPa	ASTM D3039
Tensile Elongation (Break)	1.5	%	ASTM D3039
Flexural Modulus	124000	MPa	ASTM D790
Flexural Strength	2000	MPa	ASTM D790
Compressive Modulus	124000	MPa	ASTM D3410
Compressive Strength	1360	MPa	ASTM D3410
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	143	°C	DSC

CLTE - Flow (< 149°C)	5.4E-7	cm/cm/°C	Internal Method
Service Temperature	< 250	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.2E-5	ohms·cm	ASTM D257

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Recommended distributors for this material

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