

Pyramid™ PEEK CC100

Polyetheretherketone

Polymics, Ltd.

Message:

PEEK with 60% Chopped Carbon Fabric/Tape

General Information			
Filler / Reinforcement	Carbon Fiber,60% Filler by Weight		
Appearance	Black		
	Grey		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	110		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	36000	MPa	ASTM D638
Tensile Strength (Break)	310	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	34000	MPa	ASTM D790
Flexural Strength (Yield)	330	MPa	ASTM D790
Compressive Modulus	25000	MPa	ASTM D695
Compressive Strength	275	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.318 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 300	°C	ASTM D648
Glass Transition Temperature	143	°C	ASTM E1356
Melting Temperature	340	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+2	ohms	ASTM D257
Volume Resistivity	< 1.0E+2	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

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