Celazole® (T Series) TF-60C

Polybenzimidazole

PBI Performance Products, Inc.

Message:

Celazole TF-60C is a carbon-reinforced blend, ideal for parts that require high strength, very low creep, and deflection resistance. A great match for planetary gears, office equipment, semiconductor, electronic and mechanical applications.

General Information					
Filler / Reinforcement	Carbon Fiber				
Features	Good Chemical Resistance				
	Good Creep Resistance				
	Good Dimensional Stability				
	Good Wear Resistance				
	High Heat Resistance				
	High Strength				
Uses	Business Equipment				
	Electrical/Electronic Applications				
	Gears				
	Semiconductor Molding Compounds				
Forms	Pellets				
Processing Method	Extrusion				
	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.41	g/cm³			
Water Absorption			ASTM D570		
23°C, 24 hr	0.15	%			
Equilibrium	4.0	%			
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (A-Scale)	30		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	24100	MPa	ASTM D638		
Tensile Strength	228	MPa	ASTM D638		
Tensile Elongation (Break)	1.4	%	ASTM D638		
Flexural Modulus	21000	MPa	ASTM D790		
Flexural Strength	321	MPa	ASTM D790		
Compressive Modulus	3790	MPa	ASTM D695		
compressive modulus					

Poisson's Ratio	0.39			
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (1 MPa, Unannealed)	I.8 320	°C	ASTM D648	
CLTE - Flow (24 to 149°C)	2.6E-5	cm/cm/°C	TMA	
Thermal Conductivity (24°C)	0.45	W/m/K	ASTM F433	
Heat Capacity (70°C)	1170	J/kg/°C	DSC	
Temperature of Intial Weight Loss			Internal Method	
Air	599	°C		
Nitrogen	627	°C		

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