

TECACOMP® PA6 CF20 black 4097

Polyamide 6
Ensinger GmbH

Message:

Main features
excellent tensile strength
Target Industries
automotive industry
business machines
mechanical engineering
precision engineering

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
Features	High tensile strength		
Uses	Application in Automobile Field		
	Business equipment		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm³	
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	33	g/10 min	ISO 1133
Viscosity Number (H2SO4 (Sulphuric Acid))	160	cm³/g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16000	MPa	ISO 527-2/50
Tensile Stress	200	MPa	ISO 527-2/50
Tensile Strain (Break)	2.5	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	55	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature			DIN 53765
-- 1	5.00	°C	DIN 53765
-- 2	60.0	°C	DIN 53765
Melting Temperature	220	°C	DIN 53765
Service Temperature			
long term	100	°C	
short term	180	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+4	ohms	DIN EN 61340
Volume Resistivity	< 1.0E+6	ohms · cm	DIN EN 61340

Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	4.0 - 8.0	hr
Suggested Max Moisture	0.10	%
Processing (Melt) Temp	250 - 300	°C
Mold Temperature	80 - 120	°C

NOTE

1. Moist
2. Dry

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