

TECACOMP® PA6 CF30 black 3553

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, 30% 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/cm ³	
Apparent Density	0.58	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	12	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	18.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	0.72	%	ISO 294-4
Flow	0.14	%	ISO 294-4
Viscosity Number (H2SO4 (Sulphuric Acid))	150	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18000	MPa	ISO 527-2/50
Tensile Stress	230	MPa	ISO 527-2/50
Tensile Strain (Break)	2.5	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	213	°C	ISO 75-2/A
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 Conductivity	130	S/m	ISO 3915
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	0.72	ohms·cm	ISO 3915
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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