

TECACOMP® PEEK 150 CF30 black 3154

Polyetheretherketone

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	1.41	g/cm³	
Apparent Density	0.63	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (360°C/2.16 kg)	4.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (360°C/2.16 kg)	3.50	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	0.57	%	ISO 294-4
Flow	0.19	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	25000	MPa	ISO 527-2/50
Tensile Stress	240	MPa	ISO 527-2/50
Tensile Strain (Break)	1.5	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	38	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	335	°C	ISO 75-2/A
Glass Transition Temperature	143	°C	DIN 53765
Melting Temperature	343	°C	DIN 53765
Service Temperature			

long term	260	°C	
short term	300	°C	
Electrical Conductivity	8.66	S/m	DIN EN 61340
Injection	Nominal Value	Unit	
Drying Temperature	140 - 160	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	360 - 400	°C	
Mold Temperature	160 - 200	°C	

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