

TECACOMP® PEEK 150 GF30 natural 9592

Polyetheretherketone

Ensinger GmbH

Message:

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

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	High tensile strength		
Uses	Application in Automobile Field		
	Business equipment		
Appearance	Natural color		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm³	
Apparent Density	0.69	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	0.97	%	ISO 294-4
Flow	0.44	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10500	MPa	ISO 527-2/50
Tensile Stress	205	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/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	330	°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
Injection	Nominal Value	Unit
Drying Temperature	140 - 160	°C
Drying Time	4.0 - 6.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	360 - 400	°C
Mold Temperature	180 - 210	°C

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