

TECACOMP® PPS CF40 black 9736

Polyphenylene Sulfide
Ensinger GmbH

Message:

TECACOMP® PPS CF40 black 9736 is a polyphenylene sulfide (PPS) product, which contains 40% carbon fiber reinforcement. It can be processed by injection molding and is available in Europe.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	
Apparent Density	0.56	g/cm ³	ISO 60
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	29000	MPa	ISO 527-2/50
Tensile Stress	200	MPa	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	28	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	90.0	°C	DIN 53765
Melting Temperature	280	°C	DIN 53765
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	1.0E-5	cm/cm/°C	ISO 11359-2
Flow: 150 to 250°C	4.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	3.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 150 to 250°C	1.0E-4	cm/cm/°C	ISO 11359-2
Service Temperature			
long term	230	°C	
short term	260	°C	
Electrical Conductivity	65.0	S/m	ISO 3915
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.5	ohms · cm	ISO 3915
Injection	Nominal Value	Unit	
Drying Temperature	140 - 150	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.050	%	
Processing (Melt) Temp	300 - 370	°C	
Mold Temperature	140 - 200	°C	

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Recommended distributors for this material

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