

TECACOMP® PPS TC black 4084

Polyphenylene Sulfide
Ensinger GmbH

Message:

Main features
high thermal conductivity
Target Industries
electrical engineering
LED lighting technology
mechanical engineering
automotive industry

General Information			
Filler / Reinforcement	Graphite fiber reinforced material		
Features	Heat conduction		
Uses	LEDs		
	Lighting Applications		
	Application in Automobile Field		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm³	
Melt Mass-Flow Rate (MFR) (316°C/5.0 kg)	50	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (316°C/5.0 kg)	30.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	0.63	%	ISO 294-4
Flow	0.58	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9500	MPa	ISO 527-2/50
Tensile Stress	40.0	MPa	ISO 527-2/50
Tensile Strain (Break)	0.50	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	6.0	kJ/m²	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 80°C	1.8E-5	cm/cm/°C	ISO 11359-2

Flow: 100 to 200°C	4.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	2.5E-5	cm/cm/°C	ISO 11359-2
Lateral: 100 to 200°C	5.7E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity			DIN EN 821
-- 1	2.0	W/m/K	DIN EN 821
-- 2	7.3	W/m/K	DIN EN 821
Service Temperature			
long term	230	°C	
short term	260	°C	
Electrical Conductivity	5.30	S/m	ISO 3915
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.4E+5	ohms	DIN EN 61340
Volume Resistivity	19	ohms·cm	ISO 3915
Flammability	Nominal Value	Unit	Test Method
Flammability Classification	V-0		IEC 60695-11-10, -20
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	
NOTE			
1.	Through-plane		
2.	In-plane		

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