

TECACOMP® PPS HTE black 3986V

Polyphenylene Sulfide

Ensinger GmbH

Message:

- Main features
- high electrical conductivity
- high thermal conductivity
- Target Industries
- bipolar plates for PEM fuel cells
- separator plates for redox-flow batteries
- heat exchanger

General Information			
Filler / Reinforcement	Graphite fiber reinforced material		
Features	Conductivity		
	Heat conduction		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.89	g/cm ³	
Molding Shrinkage			ISO 294-4
Transverse flow	0.27	%	ISO 294-4
Flow	0.37	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	16000	MPa	ISO 178
Flexural Stress	68.0	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity ¹	10	W/m/K	ISO 22007-4
Service Temperature			
long term	200 - 240	°C	
short term	280	°C	
Electrical Conductivity	2100	S/m	ISO 3915
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	0.047	ohms · cm	ISO 3915
Flammability	Nominal Value	Unit	Test Method
Flammability Classification	HB		IEC 60695-11-10, -20
NOTE			

1. Through-plane

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