

TECACOMP® PP HTE black 4098

Polypropylene
Ensinger GmbH

Message:

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

General Information			
Filler / Reinforcement	Graphite fiber reinforced material		
Features	Conductivity		
	Heat conduction		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.87	g/cm³	
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16000	MPa	ISO 527-2
Tensile Stress	22.0	MPa	ISO 527-2
Flexural Modulus	7200	MPa	ISO 178
Flexural Stress	40.0	MPa	ISO 178
Flexural Strain	0.20	%	ISO 178
Service Temperature			
long term	90	°C	
short term	130	°C	
Thermal Diffusivity			DIN EN 821
In-plane	24.0	cSt	DIN EN 821
Through-plane	10.2	cSt	DIN EN 821
Electrical Conductivity	2500	S/m	ISO 3915
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	1.7	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Specific Heat	900	J/kg/°C	DIN EN 821
Thermal Conductivity			DIN EN 821
-- 1	24	W/m/K	DIN EN 821

-- ²	45	W/m/K	DIN EN 821
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	0.039	ohms·cm	ISO 3915
Flammability	Nominal Value	Unit	Test Method
Flammability Classification	HB		IEC 60695-11-10, -20
NOTE			
1.	Through-plane		
2.	In-plane		

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