

TECACOMP® PP HTE black 4099

Polypropylene
Ensinger GmbH

Message:

Main features
for hot compression moulding
high electrical conductivity
high thermal conductivity
Target Industries
bipolar plates for fuel cells
separator plates for redox-flow batteries

General Information			
Filler / Reinforcement	Graphite fiber reinforced material		
Features	Conductivity		
	Heat conduction		
Appearance	Black		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Density	1.94	g/cm ³	
Apparent Density	0.72	g/cm ³	ISO 60
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	12300	MPa	ISO 178
Flexural Stress	33.0	MPa	ISO 178
Flexural Strain	0.10	%	ISO 178
Service Temperature			
long term	90	°C	
short term	130	°C	
Thermal Diffusivity			DIN EN 821
In-plane	40.2	cSt	DIN EN 821
Through-plane	12.2	cSt	DIN EN 821
Electrical Conductivity	16800	S/m	ISO 3915
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	1.5	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Specific Heat	800	J/kg/°C	DIN EN 821
Thermal Conductivity			DIN EN 821
-- 1	20	W/m/K	DIN EN 821
-- 2	66	W/m/K	DIN EN 821

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E-3	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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