

Hydrophilic Carbon Paper Tgph060 For Battery Lab Applications

Item Number: BC-16



Introduction

Toray carbon paper is a porous C/C composite material product (composite material of carbon fiber and carbon) that has undergone high-temperature heat treatment.

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Properties	Unit	TGP-H-030	TGP-H-060	TGP-H-090	TGP-H-120
thickness	mm	0.11	0.19	0.28	0.37
Hydrophobic treatment	/	5% Hydrophobic	Relatively hydrophilic (without hydrophobic treatment) / 20% hydrophobic optional	5% Hydrophobic	5% Hydrophobic
Bulk density	g/cm ³	0.4	0.44	0.44	0.45
Porosity	%	80	78	78	78
Surface roughness	μm	8	8	8	8
gas permeability	ml·mm/[cm ² ·hr·mmAq]	2500	1900	1700	1500
Resistivity (throughplane)	mΩcm	80	80	80	80
Resistivity (inplane)	mΩcm	/	5.8	5.6	4.7
vertical [room temperature]	W/[m·k]	/	[1.7]	[1.7]	1.7
In-plane[100°C]	W/[m·k]	/	23	23	23
In-plane expansion coefficient[25-100°C]	*10-/C	-0.8	-0.8	-0.8	-0.8
Bending strength	MPa	40	40	40	40
Flexural modulus	GPa	8	10	10	10
tensile strength	N/cm	/	50	70	90