

## Gas Diffusion Layer Substrate for Fuel Cell

### Characteristics and Advantages

#### Product Advantages

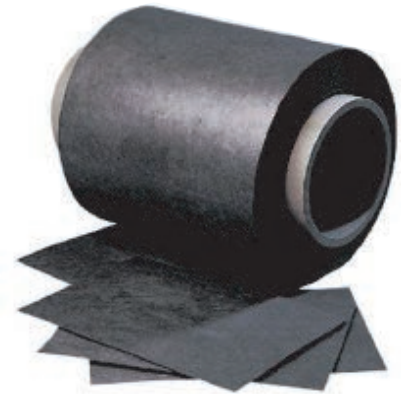
- Optimized product line-up for Fuel cell and Redox flow battery
- Sufficient supply ability

#### Product Characteristics

- Carbon fiber Paper type & Continuous roll shape
- Product specification

Width: 300mm, Roll Length: 300 M,  
Inside diameter of core : 6 inch (152 mm)

\* Product width and roll length can be optimized as per customer's request

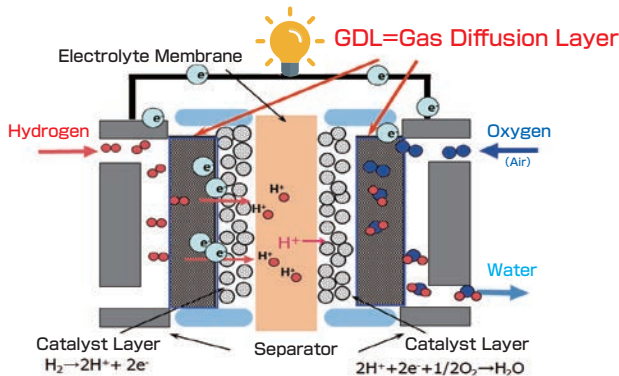


#### Product Line-up

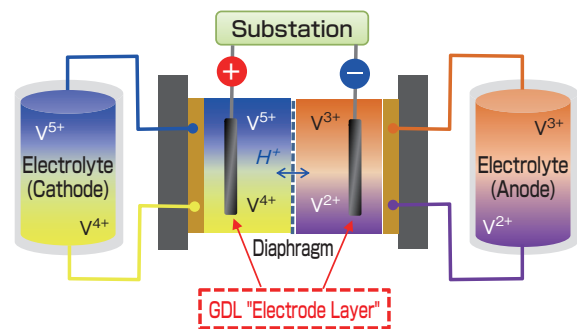
	Unit	MFK	MFX (Development)	MFL	MFK-A (Development)	MFX-A (Development)	MFL-A
Surface Treatment	—	Non	Non	Non	MPL	MPL	MPL
Thickness	mm	0.205	0.170	0.125	0.220	0.180	0.135
Area Weight	g/m <sup>2</sup>	63	57	39	79	69	55
Bulk Density	g/cm <sup>3</sup>	0.31	0.36	0.31	0.37	0.39	0.41
Gas Permeability	mL/cm <sup>2</sup> /hr/Pa	200	950	700	11	38	28
Electrical Resistance	mΩ · cm <sup>2</sup>	5.7	5.7	4.5	6.6	5.2	5.1
Compressed Thickness	mm	0.180	0.140	0.100	0.190	0.145	0.110
MD Flexural Strength	MPa	39	33	34	35	31	31
TD Flexural Strength	MPa	27	43	19	25	41	17

### Applicable components

#### Fuel Cell / DMFC



#### Redox Flow Battery



### Proposal for the future

- Product optimization against customer's requirement