

Gas Diffusion Layer Comparison Table

Gas Diffusion Layer (GDL)	Type	Thickness (um)	Density (g/cm ³)	Basic Weight (g/m ²)	Air Permeability (s)	Through Plane Resistance (mΩcm ²)	Tensile Strength (N/cm)	Flexural Modulus (MPa)	Porosity	PTFE Treated	MPL
Plain Carbon Cloth	Cloth	356	1.5	132	-	-	19.25	7.5	-	No	No
GDL-CT	Cloth	410	-	180	< 8	< 13	>10 MD & >5 XMD	-	-	Yes	Yes
ELAT Hydrophilic	Cloth	406	0.346	130	2.156	.34 @ 400 lb load	-	-	80%	No	No
ELAT LT 1400 W	Cloth	454	0.8	170	0.104 L/(m ² *s*Pa)	.17 @ 400lb load	-	-	63%	Yes	Yes
ELAT 2400W	Cloth	490	0.8	250	10	-	-	-	31%	Yes	2
Sigracet 10 AA	Paper	390	-	85	85 cm ³ /(cm ² *s)	< 6	-	-	-	No	No
Sigracet 10 BA	Paper	400	-	85	85 cm ³ /(cm ² *s)	< 12	-	-	88%	Yes	No
Sigracet 10 BB	Paper	420	-	125	3 cm ³ /(cm ² *s)	< 15	-	-	84%	Yes	Yes
Sigracet 10 BC	Paper	420	-	135	1.45 cm ³ /(cm ² *s)	< 16	-	-	82%	Yes	Yes
Sigracet 24 AA	Paper	190	-	51	-	-	-	-	-	No	No
Sigracet 24 BA	Paper	190	-	54	60 cm ³ /(cm ² *s)	< 10	-	-	84%	Yes	No
Sigracet 24 BC	Paper	235	-	100	0.6 cm ³ /(cm ² *s)	< 12	-	-	76%	Yes	Yes
Sigracet 25 AA	Paper	190	-	38	-	-	-	-	-	No	No
Sigracet 25 BA	Paper	190	-	40	210 cm ³ /(cm ² *s)	< 10	-	-	88%	Yes	No
Sigracet 25 BC	Paper	235	-	86	1 cm ³ /(cm ² *s)	< 12	-	-	80%	Yes	Yes
Sigracet 34 AA	Paper	280	-	82	-	-	-	-	-	No	No
Sigracet 34 BA	Paper	280	-	86	45 cm ³ /(cm ² *s)	< 11	-	-	83%	Yes	No
Sigracet 34 BC	Paper	315	-	140	0.35 cm ³ /(cm ² *s)	< 14	-	-	75%	Yes	Yes
Sigracet 35 AA	Paper	300	-	51	-	-	-	-	-	No	No
Sigracet 35 BA	Paper	325	-	110	1.5 cm ³ /(cm ² *s)	< 15	-	-	80%	Yes	No
Sigracet 35 BC	Paper	325	-	110	1.5 cm ³ /(cm ² *s)	< 15	-	-	80%	Yes	Yes
AvCarb EP40	Paper	200	0.2	36	4.5	8	-	-	-	No	No
AvCarb P50	Paper	170	0.31	50	35	6.7	-	-	-	No	No
AvCarb P75	Paper	245	0.29	75	15	7.8	-	-	-	No	No
AvCarb GDS1120 P50	Paper	184	0.4	79	-	< 14.5	-	-	-	Yes	Yes
AvCarb GDS3215 EP40	Paper	200	0.3	60	-	< 14	-	-	-	Yes	Yes
AvCarb GDS3250 EP40	Paper	225	0.33	75	-	< 14	-	-	-	Yes	Yes
AvCarb GDS3260 EP40	Paper	210	0.38	80	-	< 14	-	-	-	Yes	Yes

We currently sale all of the GDL that is marked in blue. If you need a GDL that is marked in black please contact us at sales@fuelcellsetc.com for pricing. We also offer teflon treatments at specific percentages for all of our GDLs.

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AvCarb GDS2120 P75	Paper	248	0.4	101	-	< 14	-	-	-	Yes	Yes
AvCarb GDS2230 P75	Paper	275	0.4	98	-	< 14	-	-	-	Yes	Yes
AvCarb GDS2240 P75	Paper	275	0.4	110	-	< 14	-	-	-	Yes	Yes
AvCarb GDS22100 P75	Paper	330	0.53	185	-	< 17	-	-	-	Yes	Yes
AvCarb MGL 190	Paper	190	0.44	-	2.2	-	65	45	78%	No	No
AvCarb MGL 280	Paper	280	0.44	-	3.3	-	85	45	78%	No	No
AvCarb MGL 370	Paper	370	0.46	-	4.4	-	120	45	78%	No	No
Freudenberg H1410 I4 C9	Paper	180	-	115	40	7	16	-	-	Yes	Yes
Freudenberg H2315 I6	Paper	210	-	115	160 l/m ² *s	7	16	-	-	Yes	No
Freudenberg I2 C6	Paper	250	-	135	70	8	14	-	-	Yes	Yes
Freudenberg C2	Paper	255	-	135	70	10	16	-	-	No	Yes
Freudenberg C4	Paper	255	-	135	50	8	12	-	-	No	Yes
Freudenberg H2415 C5	Paper	270	-	130	40	9	14	-	-	No	Yes
Freudenberg I2 C3	Paper	290	-	150	35	9	22	-	-	Yes	Yes
Freudenberg I2 C8	Paper	230	-	135	90	8	14	-	-	Yes	Yes
Spectracarb 2050A - 0550	Paper	127	0.5	88	35	18	4.2 MD & 2.6 XMD	37	-	No	No
Spectracarb 2050A-0850	Paper	203	0.5	88	35 cfm/ft ²	18	4.2 MD & 2.6 XMD	37	-	No	No
Spectracarb 2050A - 1050	Paper	254	0.5	88	35	18	4.2 MD & 2.6 XMD	37	-	No	No
Spectracarb 2050A - 1535	Paper	381	0.35	175	35	15	-	40	-	No	No
Spectracarb 2050A-1550	Paper	381	0.5	175	35 cfm/ft ²	15	-	40	78%	No	No
Toray 030	Paper	110	0.4	-	-	80 mΩcm	-	40	80%	No	No
Toray 060	Paper	190	0.44	-	-	80 mΩcm	50	40	78%	No	No
Toray 090	Paper	280	0.44	-	-	80 mΩcm	70	40	78%	No	No
Toray 120	Paper	370	0.45	-	-	80 mΩcm	90	40	78%	No	No

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