SPECIFICATION SHEET

GCL

Property	Test Method	HDPE				
Thickness,mm	ASTM D5199	0.50	0.75	1.00	1.50	2.00
Lowest individual of 10 values		0.45	0.68	0.9	1.35	1.8
Density, g/cc (min.)	ASTM D1505 / D792	0.94	0.94	0.94	0.94	0.94
Melt Flow Index, g/10 min. (max.)	ASTM D1238.2.16 kg @ 190°C	1.00	1.00	1.00	1.00	1.00
Tensile Properties (min.avg.)	ASTM D638 Type IV					
1. Strength at Break, kN/mm	Dumbbell at 2 ipm	14	22	30	46	61
2. Strength at Yield, kN/mm		10	12	18	26	34
3. Elongation Break, %		700	700	700	700	700
4. Elongation Yield, %		13	13	13	13	13
Tear Resistance, N (min.avg.)	ASTM D1004	77	116	158	228	302
Dimensional Stability, % change max. (Each Direction)	ASTM D1204 100°C 1 hour	±2	±2	±2	±2	±2
Puncture Resistance, N (min.avg.)	ASTM D4833	200	300	400	550	730
Stress Crack Resistance, hr	ASTM D5397 (App.)	400	400	400	400	400
Carbon Black Content, % (range)	ASTM D1603	2.0–3.0	2.0–3.0	2.0–3.0	2.0–3.0	2.0–3.0
Carbon Black Dipersion	ASTM D5596	Note[2]	Note[2]	Note[2]	Note[2]	Note[2]
Oxidative Induction Time (OIT) Standard OIT, minutes (min.avg.)	ASTM D3895, 200°C, O_2 1 atm	100	100	100	100	100
Oven Aging ar 85°C Standard OIT, % retained after 90 day (min.avg.)	ASTM D5721 ASTM D3895	55	55	55	55	55
UV Resistance[3] High Pressure OIT, % retained after 1600 hour	ASTM D5885	80	80	80	80	80
Width, m		7–8	7–8	7–8	7–8	7–8

Note:

1 All values are nominal test result, except when specified as minimum or maximum. These specifications are offered as an information guide for consideration to assist engineers with their specification. The values of thickness are subject to be plus or minus ten percent deviation. The values are not intended as a warranty or guarantee, and Wulwith International Co.,Ltd. Assumes no liability in connection with this information. Wulwith International Co.,Ltd. Reserves the right to change specifications contained herein without notice.

[2] Carbon Black dispersion for 10 different views.: all 10 in Categories 1 or 2