

High Density Polyethylene Sure Grip® CPL with Ultra Grip Anchors



Product Data

Property	Test Method	Minimum Average Roll Values				
Thickness (nominal), mil (mm)	ASTM D5199	80 (2.0)	100 (2.5)	120 (3.0)	160 (4.0)	200 (5.0)
Density, g/cc, minimum (black)	ASTM D792, Method B	0.94	0.94	0.94	0.94	0.94
Density, g/cc, minimum (colored)		0.935	0.935	0.935	0.935	0.935
Tensile Properties (ave. both directions)	ASTM D6693, Type IV					
Strength @ Yield (min. ave.), lb/in width (N/mm)	2 in/minute 5 specimens in each direction	176 (30.8)	220 (38.5)	264 (46)	352 (61)	440 (77)
Elongation @ Break (min. ave.), % (GL=2.0in)		300	300	300	300	300
Puncture Resistance (min. ave.), lbs. (N)	ASTM D4833	120 (537)	150 (625)	180 (750)	240 (1000)	300 (1250)
Carbon Black Content (range in %)	ASTM D4218	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3
Carbon Black Dispersion (Category)	ASTM D5596	Only near spherical agglomerates for 10 views: 9 views in Cat. 1 or 2, and 1 view in Cat. 3				
Stress Crack Resistance (Single Point NCTL), hours	ASTM D5397, Appendix	400	400	400	400	400
Oxidative Induction Time, minutes	ASTM D3895, 200°C, 1 atm O ₂	≥140	≥140	≥140	≥140	≥140
Melt Flow Index, g/10 minutes	ASTM D1238, 190°C, 2.16kg	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Pull Out Resistance psf (kN/m ²)	ISO 4624	16,500 (800)				
Back Pressure Resistance long term	SKZ-Test 700mm x 700mm	1000 hour at 1.5 bar (21.76 psi)				
Oven Aging	ASTM D5721	80	80	80	80	80
with HP OIT, (% retained after 90 days)	ASTM D5885, 150°C, 500psi O ₂					
UV Resistance	ASTM D7238	20hr. Cycle @ 75°C/4 hr. dark condensation @ 60°C				
with HP OIT, (% retained after 1600 hours)	ASTM D5885, 150°C, 500psi O ₂	50	50	50	50	50

Agru America's geomembranes are certified to pass Low Temp. Brittleness via ASTM D746 (80°C), i ~~ASTM D746~~ and Dimensional Stability via ASTM D1204 (±2% @ 100°C).

Notes:

All rolls are supplied with two slings. All rolls are wound on a 6 inch core. Special lengths are available on request. All roll lengths and widths have a tolerance of ±1%
*The weight values may change due to project specifications (i.e. absolute minimum thickness or special roll lengths) or shipping requirements (i.e. international containerized shipments).

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