

CONCRETE PROTECTION

CHEM-LOK™ CPL with ULTRA-LOK™ Anchors

HIGH DENSITY POLYETHYLENE

BLOME CHEM-LOK™ CPL with Ultra-Lok™ anchors is a concrete protection system manufactured from high quality resins that include HDPE, PP, PVDF, and ECTFE. Chem-Lok meets or exceeds the highest requirements for corrosion resistant and waterproof construction. Chem-Lok can be used wherever there is a need for high performing concrete structures but is particularly beneficial as a protective layer against corrosive fluids or gases. From chemical sumps and trenches to wastewater tunnels to nuclear power plants and countless other applications, Chem-Lok provides protection in the harshest environments.

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PRODUCT DATA

Property	Test Method	Minimum Average Values				
		80 (2.0)	100 (2.5)	120 (3.0)	160 (4.0)	200 (5.0)
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 (yellow/other)		0.935	0.935	0.935	0.935	0.935
Tensile Properties (ave. both directions) Strength @ Yield (min. ave.), lb/in width (N/mm)	ASTM D6693, Type IV 2 in/minute	176 (30.8)	220 (38.5)	264 (46)	352 (61)	440 (77)
Elongation @ Break (min. ave.), %(GL=2.0in)		300	300	300	300	300
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				
Pull Out Resistance psf (kN/m²)	ISO 4624	16,500 (800)				
Back Pressure Resistance long term	SKZ-Test 700mm x 700mm	1000 hour at 1.5 bar (21.76 psi)				

BLOME International concrete protection liners are certified to pass Low Temp. Brittleness via ASTM D746 (-80 °C) and Dimensional Stability via ASTM D1204 (±2% @ 100°C).

Notes:

Rolls will only be supplied with slings upon request. All rolls are wound on a 6 inch core. All sheets will be shipped on pallets. Special widths and lengths are available on request. All roll lengths and widths have a tolerance of ±1%. Any 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).

** Only applies to black product.

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