



Technical Data Polypropylene Geomembrane (Non Reinforced)

Skellerup Containment Systems polypropylene is produced from a resin formation designed to provide premium quality geomembrane with excellent flexibility, and improved elasticity and resistance to puncture. These properties assure maximum multiaxial elongation to accommodate differential settlement. Polypropylene is ideal for most geomembrane applications and major benefits to installation are provided by a lower coefficient of thermal expansion and a wide temperature-welding window.

Tested Property	Unit	Test Method	Minimum Values			
Nominal Thickness	mm	ASTM D 5199	0.75	1.0	1.5	2.0
Minimum Thickness	mm	ASTM D 751	0.68	0.90	1.35	1.80
Density	g/cm ³	ASTM D 792/1505A	0.87	0.87	0.87	0.87
Tensile Properties (each direction)		ASTM D 6693, Type IV, Speed: 50mm/min				
Strength at Break	N/mm		12	17	25	35
Elongation at Break	%	Lo = 50mm	900	900	900	900
Tear Resistance	N	ASTM D 1004	45	55	90	120
Puncture Resistance	N	ASTM D 4833	120	150	200	300

Reference Property	Unit	Test Method	Nominal Values			
Multi-axial Strain	%	ASTM D 5617	>100	>100	>100	>100
Carbon Black Content	%	ASTM D 1603	3.0	3.0	3.0	3.0
Carbon Black Dispersion	Category	ASTM D 5596	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾
Oxidative Induction Time	Min	ASTM D 3895, 200°C, pure O ₂ , 1 atm	90	90	90	90
Low Temperature Brittleness	°C	ASTM 746, Condition B	<-40	<-40	<-40	<-40
Melt Flow Index	g/10 min	ASTM D 1238. Cond. 190/2.16	<1.0	<1.0	<1.0	<1.0

(1): Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.

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