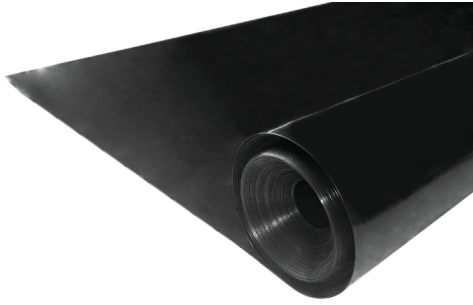


# uniseal HDPE



Uniseal® HDPE, a Durable, flexible membrane that is vapor-permeable and root-resistant. Adheres to roofs, ground surfaces, and ponds; protects underground services and hardscapes from root damage. Suitable for large areas and joinable with hot air welding.

## APPLICATIONS:

- Roofs
- Ponds
- Ground surfaces
- Underground protection
- Use with Hot Weld Gun

## BENEFITS:

- Durable and flexible
- Root- and vapor-resistant
- Protects surfaces and underground services

## APPLICATION WITH:

- Uniseal® HeatWeld Gun



Tech Specs	UOM	Uniseal® HDPE							
SGBC Green Product		✓✓✓✓							
Material		High Density Polyethylene							
Colour		Black	Black	Black	Black	Black	Black	Black	Black
Size: Thickness	mm	0.3	0.6	0.8	1.0	1.3	1.5	2.0	3.0
Width	m	3.0	3.0	3.0	3.0	3.0	3.0	1.5	2.0
Length	m	100	75	50	50	50	50	50	25
Density	g/cm <sup>3</sup>	≥ 0.94	≥ 0.94	≥ 0.94	≥ 0.94	≥ 0.94	≥ 0.94	≥ 0.94	≥ 0.94
Depth	mm	-	-	-	-	-	-	1,450	1,450
Tensile Yield Strength (Vertical and Horizontal)	N/mm	≥ 5	≥ 9	≥ 12	≥ 15	≥ 19	≥ 22	≥ 29	≥ 44
Tensile Breaking Strength (Vertical and Horizontal)	N/mm	≥ 8	≥ 16	≥ 22	≥ 27	≥ 35	≥ 40	≥ 53	≥ 80
Elongation (Vertical and Horizontal)	%	≥ 12	≥ 12	≥ 12	≥ 12	≥ 12	≥ 12	≥ 12	≥ 12
Elongation @ Break (Vertical and Horizontal)	%	≥ 700	≥ 700	≥ 700	≥ 700	≥ 700	≥ 700	≥ 700	≥ 700
Tearing Load @ Right Angle (Vertical and Horizontal)	N	≥ 38	≥ 75	≥ 100	≥ 125	≥ 162	≥ 187	≥ 249	≥ 374
Anti-puncture Strength	N	≥ 96	≥ 192	≥ 256	≥ 320	≥ 416	≥ 480	≥ 640	≥ 960
Tensile Load Stress Cracking (Tensile method of deadload of the cut)	h	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500
Carbon Black Content	%	2.0 to 3.0	2.0 to 3.0	2.0 to 3.0	2.0 to 3.0	2.0 to 3.0	2.0 to 3.0	2.0 to 3.0	2.0 to 3.0
Carbon Black Dispersion		The number of Level 3 among 10 data is not more than one; Level 4 and Level 5 are not allowed							
Oxidation Induction Time (OIT)									
Under Normal Pressure	min	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
Under High Pressure	min	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500
85°C Thermal Aging (retention rate of OIT under normal pressure after 90days)	%	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55
Ultraviolet Resistance (retention rate of OIT after 1600hr ultraviolet irradiation)	%	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50