GSE HD Smooth Geomembrane

GSE HD is a smooth high density polyethylene (HDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require excellent chemical resistance and endurance properties.

[*]

AT THE CORE: An HDPE geomembrane suitable for applications that require excellent chemical resistance and endurance properties.

Product Specifications

Product Specifications				These product specifications meet or exceed GRI GM13.					
Tested Property	Test Method	Frequency	Minimum Average Value						
Thickness, (minimum average) mm (mil) Lowest individual reading, mm (mil)	ASTM D 5199	every roll	0.75 (30) 0.68 (27)	1.0 (40) 0.9 (36)	1.5 (60) 1.35(54)	2.0 (80) 1.8 (72)	2.5 (100) 2.25 (90)	3.0 (120) 2.7 (108)	
Density, g/cm³	ASTM D 1505	every 5th roll	0.94	0.94	0.94	0.94	0.94	0.94	
Tensile Properties (each direction) Strength at Break, N/mm-width (lb/in) Strength at Yield, N/mm-width (lb/in) Elongation at Break, % Elongation at Yield, %	ASTM D 6693, Type IV Dumbell, 2 ipm G.L. 51 mm (2.0 in) G.L. 33 mm (1.3 in)	every 5th roll	21 (120) 11 (63) 700 13	28 (160) 15 (86) 700 13	43 (246) 23 (131) 700 13	57 (325) 30 (171) 700 13	71 (405) 38 (217) 700 13	85 (485) 45 (257) 700 13	
Tear Resistance, N (lb)	ASTM D 1004	every 5th roll	93 (21)	125 (28)	187 (42)	249 (56)	311 (70)	373 (84)	
Puncture Resistance, N (lb)	ASTM D 4833	every 5th roll	263(59)	352(79)	530(119)	703(158)	881(198)	1,059 (238)	
Carbon Black Content, %	ASTM D 1603 / D 4218	every 5th roll	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	
Carbon Black Dispersion	ASTM D 5596	every 5th roll	Note (1)	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note (1)	Note (1)	
Notched Constant Tensile Load, hrs	ASTM D 5397, Appendix	90,000 kg	500	500	500	500	500	500	
Oxidative Induction Time, minutes	ASTM D 3895, 200° C; O2, 1 atm	90,000 kg	>100	>100	>100	>100	>100	>100	
	TYF	PICAL ROLL DIME	ENSIONS						
Roll Length ⁽²⁾ , m (ft)			280 (918)	210 (689)	140 (459)	105 (344)	85 (279)	70 (230)	
Roll Width ⁽²⁾ , m (ft)			7.0 (23)	7.0 (23)	7.0 (23)	7.0 (23)	7.0 (23)	7.0 (23)	
Roll Area, m² (ft²)			1,960 (21,114)	1,470 (15,847)	980 (10,557)	735 (7,912)	595 (6,417)	490 (5,290)	
40' Standard Container, roll			16	16	16	16	16	16	

NOTES

• "Dispersion only applies to mear spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.

+ $^{(2)}\mathsf{Roll}$ lengths and widths have a tolerance of ±1%

• GSE HD provided in thicknesses of 0.75 mm to 3.0 mm has an approximate weight of 1,440 kg.

• All GSE geomembranes have dimensional stability of ±2% when tested according to ASTM D 1204 and LTB of <-77°C when tested according to ASTM D 746

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.



For more information on this product and others, please visit us at DURABILITY RUNS DEEP GSEworld.com, call 66.2.937.0091 or contact your local sales office.

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