

# GSE HyperNet

GSE HyperNet is a synthetic drainage material manufactured from a premium grade high density polyethylene (HDPE) resin. The structure of the GSE HyperNet geonet is formed specifically to transmit fluids uniformly under a variety of field conditions. The geonet is formulated to be resistant to ultraviolet light.



## AT THE CORE:

A synthetic geonet engineered specifically to transmit fluids consistently under a variety of field conditions.

## Product Specifications

Tested Property	Test Method	Unit	Values (*)					
<b>Technical Characteristics</b>								
Product Type	---	---	CN-E		ST-E		HF-E	
Polymer Type	---	---	High Density Polyethylene (HDPE)					
Density	DIN ISO 1183-1/A	g/cm <sup>3</sup>	≥ 0.940		≥ 0.940		≥ 0.940	
Thickness at 20 kPa <sup>(a)</sup>	DIN EN ISO 9863-1	mm	4.5		5		6	
Tensile Strength MD (Tmax)	DIN EN ISO 10319	kN/m	6.0		7.0		9.0	
In-plane Flow Capacity (q <sub>p</sub> ); MD (rigid/rigid) <sup>(a)</sup>	DIN EN ISO 12958	l/(m x s)	i = 1	i = 0.1	i = 1	i = 0.1	i = 1	i = 0.1
20 kPa			2.1	0.5	2.5	0.55	2.7	0.6
50 kPa			2.0	0.45	2.4	0.5	2.6	0.55
100 kPa			1.8	0.4	2.3	0.45	2.4	0.5
200 kPa			1.6	0.25	2.0	0.25	2.0	0.45
500 kPa							1.5	0.3
<b>Durability Characteristics</b>								
Carbon Black Content	ASTM D 4218	%	2.0 - 3.0		2.0 - 3.0		2.0 - 3.0	
Oxidative Induction Time (OIT)	ASTM D 3895 (190°C; Pure O <sub>2</sub> ; 1 atm)	min	100		100		100	
<b>Roll Dimensions</b>								
Roll Width (approx.) <sup>(b)</sup>		m	4.2		4.3		4.3	
Roll Length (approx.) <sup>(b)</sup>		m	90		70		65	
Roll Area (approx.)		m <sup>2</sup>	378		301		279.5	

NOTES:

(\*): All values unless otherwise noted are guiding values. Minimum values are within the 95% confidence interval

(a): 300 x 300 mm test specimen

(b): Roll width and lengths have a tolerance of -1%

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.

**[ DURABILITY RUNS DEEP ]** For more information on this product and others, please visit us at [GSEworld.com](http://GSEworld.com), call 49.40.767420 or contact your local sales office.

