

Product Specifications

Tested Property	Test Method	Min. Value
Thickness, mils (mm)	ASTM D 5199	54 (1.4)
Density, g/cm ³	ASTM D 1505	0.94
Tensile Properties (each direction)	ASTM D 6693, Type IV	
Strength at Break, lb/in-width (N/mm)	Dumbell, 2 ipm	243 (43)
Strength at Yield, lb/in-width (N/mm)		130 (23)
Elongation at Break, %	G.L. 2.0 in (51 mm)	700
Elongation at Yield, %	G.L. 1.3 in (33 mm)	13
Tear Resistance, lb (N)	ASTM D 1004	42 (187)
Puncture Resistance, lb (N)	ASTM D 4833	119 (530)
Carbon Black Content, %	ASTM D 1603	2.0
Carbon Black Dispersion	ASTM D 5596	+Note 1
Notched Constant Tensile Load, hrs	ASTM D 5397, Appendix	400
Reference Property	Test Method	Nom. Value
Oxidative Induction Time, minutes	ASTM D 3895, 200° C; O ₂ , 1 atm	>100
Roll Length (approximate), ft (m)		560 (171)
Roll Width, ft (m)		22.5 (6.9)
Roll Area, ft ² (m ²)		12,600 (1,171)

NOTES:

- +Note 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.
- GSE HD is available in rolls weighing about 3,900 lbs (1,769 kg)
- All GSE geomembranes have dimensional stability of +/- 2% when tested with ASTM D 1204 and LTB of <-77° C when tested with ASTM D 746.