



## Product Description

GPS HD Smooth has proven itself in industrial, agricultural and municipal projects. It excels in decorative situations as well. This geomembrane is produced from virgin polyethylene resins. It has outstanding chemical resistance, mechanical properties, environmental stress crack resistance, dimensional stability and thermal aging characteristics.

GPS HD smooth contains approximately 97.5% polymer and 2.5% carbon black, giving the material excellent UV resistance. Brawler's proprietary formulation of antioxidants and heat stabilizers significantly increases the lifetime of the liner, especially in exposed applications. Manufactured from virgin polyethylene resins, it is designed to provide a high quality, economical geomembrane.

## Applications

- ✓ Coal Ash Impoundments
- ✓ Wastewater
- ✓ Reserve Pits
- ✓ Frac Pits
- ✓ Under Rig Liners
- ✓ Retention Ponds
- ✓ Fresh Water Pits
- ✓ Flowback Pits
- ✓ Secondary Containment
- ✓ Aboveground Storage Tanks
- ✓ Mining

PROPERTIES	TEST METHOD	MINIMUM AVERAGE VALUES				
		12	20	30	40	60
THICKNESS <sup>1</sup> , (MIL.)	ASTM D5199	11	18	27	36	54
LOWEST INDIVIDUAL READING		9	16	24	32	49
DENSITY, G/CM <sup>3</sup>	ASTM D1505	.940	.940	.940	.940	.940
TENSILE PROPERTIES (EACH DIRECTION)	ASTM D1505, TYPE IV					
STRENGTH AT BREAK (LBS.)(N/MM)		38 (6)	68 (12)	103 (18)	137 (24)	205 (36)
STRENGTH AT YIELD (LBS.)(N/MM)		21 (4)	38 (6)	57 (10)	76 (14)	113 (20)
ELONGATION AT BREAK (%)		700	700	700	700	700
ELONGATION AT YIELD (%)		12	12	12	12	12
TEAR RESISTANCE (LBS.) (N)	ASTM D1004	6 (30)	12 (53)	19 (84)	25 (113)	38 (168)
PUNCTURE RESISTANCE (LBS.) (N)	ASTM D4833	17 (77)	31 (137)	49 (216)	65 (288)	97 (432)
CARBON BLACK CONTENT (%) (RANGE)	ASTM 1603	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0
CARBON BLACK DISPERSION	NOTE <sup>(1)</sup>	NOTE <sup>(1)</sup>	NOTE <sup>(1)</sup>	NOTE <sup>(1)</sup>	NOTE <sup>(1)</sup>	NOTE <sup>(1)</sup>
STANDARD ROLL DIMENSIONS						
LENGTH <sup>(2)</sup> , FT		1,850	1,330	1,210	910	600
WIDTH <sup>(2)</sup> , FT		19	19	22	22	22
AREA <sup>(2)</sup> , FT		35,150	25,270	26,620	20,020	13,200

<sup>(1)</sup>9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.

<sup>(2)</sup>Roll widths and lengths have a tolerance of ± 1%

\*Custom material thicknesses also available

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