



TITAN 460 SERIES

GEOMEMBRANE HDPE SMOOTH

LINER

(60 mil HDPE)

PROPERTY	TEST PROCEDURE	VALUE (metric)
Thickness (min avg.)	ASTM D-5199	1.5mm (60mil)
Thickness (min)	ASTM D-5199	1.35mm
Resin Density	ASTM D-1505	>0.932g/cc
Melt Index-190/2.16 (max.)	ASTM D-1238	1.0 g/10min.
Sheet Density	ASTM D-1505	>0.94 g/cc
Carbon Black Content	ASTM D-4218	>2.0%/<3.0%
Carbon Black Dispersion	ASTM D-5596	Category 1 / 2
Oxidation Induction Time (min. avg)	ASTM D-3895	100 min.
Tensile Properties (min. avg) (2)	ASTMD-6693	
Strength at Yield		22 kN/m
Elongation at Yield		13%
Strength at Break		42 kN/m
Elongation at Break		700%
Tear Resistance (min.avg)	ASTM D-1004	187 N
Puncture Resistance (min. avg)	ASTM D-4833	540 N
Dimensional Stability	ASTM D-1204	± 2%
Stress Crack Resistance (SP-NCTL)	ASTM D-5397	300 hr.
Oven Aging-%retained after 90 days	ASTM D-5721	
HP-OIT (min.avg)	ASTM D-5885	80%
UV Resistance-% retained after 1600 hr	GRI-GM-11	
HP-OIT (min. avg.)	ASTM D-5885	50%

SUPPLY SPECIFICATIONS	UNIT
Roll Dimensions – Width	6.80 m (22.5 ft)
Roll Dimensions – Length	158.5 m (520 ft)
Area (Surface/Roll)	1078 m ² (11,604 ft ²)

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