



**NORTHWEST LININGS &  
GEOTEXTILE PRODUCTS, Inc.**

*"Helping to Protect the Environment"*

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## HDPE Smooth Specifications

PROPERTY	Frequency <sup>1</sup>	TEST METHOD	HD40 mil	HD60 mil	HD80 mil	HD100 mil
Thickness- (nominal) (mils)			40	60	80	100
Thickness- (min. average) (mils)	per roll	D5199	40	60	80	100
• Lowest individual of 10 values			36	54	72	90
TENSILE PROPERTIES (min. aver.)	50,000 SF	D638 Type IV				
•Yield Strength (lb/in)		(2 ipm)	84	126	168	210
•Break Strength (lb/in)			152	228	304	380
•Yield Elongation (%)			12	12	12	12
•Break Elongation (%)		2.0" gauge	700	700	700	700
Tear Resistance (min. average.) (lb)	50,000 SF	D1004	28	42	56	70
Puncture Resistance (min. average.) (lb)	50,000 SF	D4833 FTMS 101/Method 2065 <sup>2</sup>	72	108	144	180
Carbon Black Content (range) (%)	50,000 SF	D1603/D4218	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0
Carbon Black Dispersion	50, 000 SF	D5596	Note	Note	Note	Note
Density (min. average.) (g/cc)	Resin Batch	D1505/D792	0.940	0.940	0.940	0.940
Stress Crack Resistance (hr)	Resin Batch	D5397 (App.)	200	200	200	200
Dimensional Stability (max. average.) (%)	Resin Batch	D1204	±2	±2	±2	±2
Seam Properties		D4437				
1. Shear Strength, lb/in			80	120	160	200
2. Peel Strength, lb/in			59 & FTB	88 & FTB	118 & FTB	147 & FTB

<sup>1</sup> = Testing frequencies are rounded to the nearest full roll.

<sup>2</sup> = FTMS 101 has been replaced with 4833. Value shown for comparison purposes only. Carbon Black Dispersion for 10 different views: all 10 in Categories 1 or 2.

The information and data contained herein are believed to be accurate and reliable. Northwest Linings makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information

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