

## Geomembrane Textured HDPE Series

Properties	Test Method	Frequency	Minimum Average Values			
			30 mil	40 mil	60 mil	80 mil
Thickness, mil	ASTM D5199	Every roll	Nom. (-10%)	Nom. (-10%)	Nom. (-10%)	Nom. (-10%)
Lowest individual reading 8 of 10 values			-15%	-15%	-15%	-15%
Lowest individual for any of 10 values			-20%	-20%	-20%	-20%
Density, g/cm <sup>3</sup> (minimum)	ASTM D1505	200,000 lb	.940	.940	.940	.940
Asperity Height, mils	ASTM D7466	Every Roll	16	16	16	16
Tensile Properties (Each Direction)	ASTM D6693, Type IV	20,000 lb	43 (8)	57 (10)	86 (15)	114 (20)
Strength at Break, lb/in width (N/mm)			60 (10)	80 (14)	120 (21)	160 (28)
Strength at Yield, lb/in width (N/mm)			100	100	100	100
Elongation at Break, %			12	12	12	12
Elongation at Yield, %						
Tear Resistance, lb (N)	ASTM D1004	45,000 lb	20 (88)	27 (119)	40 (178)	53 (237)
Puncture Resistance, lb (N)	ASTM D4833	45,000 lb	43 (190)	57 (254)	86 (380)	114 (507)
Carbon Black Content, % (range)	ASTM D1603	20,000 lb	2.0 – 3.0	2.0-3.0	2.0 – 3.0	2.0 – 3.0
Carbon Black Dispersion	ASTM D5596	45,000 lb	Note <sup>(1)</sup>	Note <sup>(1)</sup>	Note <sup>(1)</sup>	Note <sup>(1)</sup>
<b>Standard Roll Dimensions</b>						
Roll Length <sup>(2)</sup> , ft			1020	790	600	
Roll Length <sup>(2)</sup> , ft			21.5	21.5	21.5	
Roll Area, ft <sup>2</sup>			20,855	16,125	11,180	

(1) of 10 readings; 8 of 10 must be ≥ 14 mils (53mm), and lowest individual reading must be ≥ 12 mils (30mm)

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

(3) Roll widths and lengths have a tolerance of ±1%

\*Custom material thicknesses also available

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. GeoCHEM, Inc. MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.