

10 MIL BLACK VIRGIN RESIN LLDPE
NON-REINFORCED LINER
Product Code: GEO10LLDPE

<u>PROPERTIES</u>	<u>TEST METHOD</u>	<u>VALUE</u>
Profile thickness	ASTM D-1593	10
(+/- 10%) (mil)		
Weight Avg./ft²	ASTM D-1910	0.49
(+/- 5% lb/ft ²)		
Specific Gravity	ASTM D-792	0.936
Carbon Black Content	ASTM D-1603	2.5
(% minimum)		
Tensile Properties	ASTM D-882	
--yield strength (lb/in width)		13
-break strength (lb/in width)		27
-elongation at yield (approximate %)		30
-elongation at break (min %)		700
Tear Resistance (grams avg)	ASTM D-1922	2500
Low Temperature (F°)	ASTM D-746	-90
Hydrostatic Resistance (psi)	ASTM D-751	50
Puncture Resistance (lb)	FTMS 101C	11
Resistance to Soil Burial	ASTM G-22	10
(approx % decrease)		
Bonded Seam Strength	ASTM D-3083	18
(factory seam, breaking factor, lb min)		
Coefficient of Permeability	ASTM D-96	1.99 X 10 ⁻¹⁰
(cm ³ /cm ² /sec)		
Water Vapor Transmission	ASTM D-96-A	0.17gm/m ² /24hrs
Environmental Stress Crack Rating (24 days)	ASTM-D-1693	no failures

The values listed above are typical properties and are intended to be used as guidelines only. No guarantee or warranty regarding performances of this product is made by GeoCHEM, Incorporated as the manner of use, handling and conditions are beyond our control. Install in accordance with accepted industry standards.

**20 MIL BLACK VIRGIN RESIN LLDPE
NON-REINFORCED LINER
Product Code: GEO20LLDPE**

<u>PROPERTIES</u>	<u>TEST METHOD</u>	<u>VALUE</u>
Profile thickness	ASTM D-1593	20
(+/- 10%) (mil)		
Weight Avg./ft²	ASTM D-1910	0.29
(+/- 5% lb/ft ²)		
Specific Gravity	ASTM D-792	0.936
Carbon Black Content	ASTM D-1603	2.5
(% minimum)		
Tensile Properties	ASTM D-882	
--yield strength (lb/in width)		25
-break strength (lb/in width)		55
-elongation at yield (approximate %)		30
-elongation at break (min %)		650
Tear Resistance (grams avg)	ASTM D-1922	3200
Low Temperature (F°)	ASTM D-746	-90
Hydrostatic Resistance (psi)	ASTM D-751	100
Puncture Resistance (lb)	FTMS 101C	23
Resistance to Soil Burial	ASTM G-22	10
(approx % decrease)		
Bonded Seam Strength	ASTM D-3083	36
(factory seam, breaking factor, lb min)		
Coefficient of Permeability	ASTM D-96	1.31 X 10 ⁻¹⁰
(cm ³ /cm ² /sec)		
Water Vapor Transmission	ASTM D-96-A	0.11 gm/m ² /24hrs
Environmental Stress Crack Rating (24 days)	ASTM-D-1693	no failures

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**30 MIL BLACK VIRGIN RESIN LLDPE
NON-REINFORCED LINER
Product Code: GEO30LLDPE**

<u>PROPERTIES</u>	<u>TEST METHOD</u>	<u>VALUE</u>
Profile thickness	ASTM D-1593	30
(+/- 10%) (mil)		
Weight Avg./ft²	ASTM D-1910	0.29
(+/- 5% lb/ft ²)		
Specific Gravity	ASTM D-792	0.936
Carbon Black Content	ASTM D-1603	2.5
(% minimum)		
Tensile Properties	ASTM D-882	
--yield strength (lb/in width)		38
-break strength (lb/in width)		80
-elongation at yield (approximate %)		30
-elongation at break (min %)		650
Tear Resistance (grams avg)	ASTM D-1922	3200
Low Temperature (F°)	ASTM D-746	-90
Hydrostatic Resistance (psi)	ASTM D-751	170
Puncture Resistance (lb)	FTMS 101C	35
Resistance to Soil Burial	ASTM G-22	10
(approx % decrease)		
Bonded Seam Strength	ASTM D-3083	52
(factory seam, breaking factor, lb min)		
Coefficient of Permeability	ASTM D-96	1.160 X 10 ⁻¹⁰
(cm ³ /cm ² /sec)		
Water Vapor Transmission	ASTM D-96-A	0.10gm/m ² /24hrs
Environmental Stress Crack Rating (24 days)	ASTM-D-1693	no failures

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