



Decoland Geo HD - Smooth

HDPE Geomembrane



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Decoland GEO HD - HDPE Smooth Geomembrane

Decoland GEO HD is a smooth high quality sheet, manufactured from pure HDPE virgin polymer, made for Geomembrane applications. GEO HD contains 97-97.5% Polyethylene, 2-3% Carbon Black, and traces of antioxidants and heat stabilizers. This product is double-sided smooth. The product's specifications meet or exceed GRI GM13

Physical Data

Properties	Unit	Test Method	Value(*)							
Thickness (1) :	mm	ASTM D-5199	0.75	1.00	1.25	1.50	2.00	2.50	3.50	
Density :	g/cm ³	ASTM D-792	≥0.94	≥0.94	≥0.94	≥0.94	≥0.94	≥0.94	≥0.94	
Strength at Yield: (Both directions)	N/mm		11	15	18	22	29	37	44	
Elongation at Yield: (Both directions)	%	ASTMD-638/6693 Type IV 50mm/min	12	12	12	12	12	12	12	
Strength at Break: (Both directions)	N/mm	lo = 33mm For Yield lo = 50mm For Break	20	27	33	40	53	67	80	
Elongation at Break: (Both directions)	%		700	700	700	700	700	700	700	
Tear Resistance :	N	ASTM D-1004	93	125	156	187	249	311	374	
Puncture Resistance:	N	ASTM D-4833	240	320	400	480	640	800	960	
Carbon Black Content:	%	ASTM D-1603	2-3	2-3	2-3	2-3	2-3	2-3	2-3	
Carbon Black Dispersion (2) :	Category	ASTM D-5596	1or2	1or2	1or2	1or2	1or2	1or2	1or2	
Oxidative induction time (OIT) :	Min.	ASTM D-3895	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	
High Pressure Oxidative induction Time (HPOIT):	Min.	ASTM D-5885	≥ 400	≥ 400	≥ 400	≥ 400	≥ 400	≥ 400	≥ 400	
Oven Aging Standard OIT: % retained after 90 Days	%	ASTM D-5721 /D3895 @ 85°C	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	
Stress Crack Resistance (NCTL):	H	ASTM D-5397	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	
UV Resistance HPOIT (3): Retained after 1600 Hours	%	ASTM D-7238 ASTM D-5885	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	
Roll Width (approx.) (4):	m	----	5.8 – 6 – 7							
Roll Length (approx.) (5):	m	----	50 – 75 – 100 – 125 – 150							
Surface :	----	----	Double-sided Smooth							

(*) All Values unless stated otherwise are nominal values.

(1) Tolerance ±10% of the lowest individual reading.

(2) Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be category 1 or 2. No more than 1 view from category 3.

(3)Test-Conditions: 20 hours UV cycle at 75°C followed by 4 hours condensation at 60°C.

(4) Roll Width and Lengths have a tolerance of ±1%.

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