

# TITAN 40HD

40mil HDPE GEOMEMBRANE



Titan 40HD is a high-density polyethylene (HDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require excellent chemical resistance and endurance properties.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Nominal Thickness	ASTM D 5199	mil (mm)	40 (1.0)
Density	ASTM D 792	mg/l	≥0.94
Tensile Strength – modified type IV Die – modified type IV Die Yield Stress Yield Stress Break Stress Yield Strain 33mm Gauge Break Strain 50mm Gauge	ASTM D 6693	ppi (kN/m) ppi (kN/m) % %	84 (15) 152 (27) 12 700
Tear Resistance	ASTM D 1004	lbs (N)	28 (125)
Stress Cracking	ASTM D 5397	Hours	500
Puncture Resistance	ASTM D 4833	lbs (N)	72 (320)
Carbon Black Content	ASTM D 6370	%	≥2.0
Carbon Black Dispersion	ASTM D 5596		CAT 1 or 2
Maximum Continuous use Temperature		°C	60

**NOTES:**

1. Machine Direction (MD) and cross machine direction (XMD) average values should be on the basis of 5 test specimens each direction. Yield elongation is calculated using a gauge length of 1.3 inches.
2. Other methods such as ASTM D 4218 or microwave methods are acceptable if an appropriate correlation can be established.
3. Carbon black dispersion for 10 different views: 9 in categories 1 and 2, with 1 allowed in category 3.

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## Titan Environmental Containment

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