

HYDRANET™ HP GEONET

Layfield's HydraNet™ HP is a high-performance geonet designed to enhance containment system resilience. Manufactured with next generation resins, it delivers superior durability and long-term performance. Available in multiple thicknesses, it can be laminated to nonwoven geotextiles or paired with GeoVolt® for electric leak detection. HydraNet™ HP offers exceptional resistance to heat, chemicals, and UV, making it ideal for challenging applications.

Jan 2025		HydraNet™ HP GeoNet	
Property	Test Method	Unit	Value
Thickness, MAV	ASTM D 5199	mils (mm)	315 (8.00)
Density, MAV	ASTM D 792	g/cm ³	0.94
Tensile strength (MD), MAV	ASTM D 7179	lbs/in (kN/m)	88 (15.4)
Carbon Black Content, MAV	ASTM D 4218	%	2
Melt Flow Index ⁽¹⁾ , MaxAV	ASTM D 1238	g/10 min	1.0
Flow Rate/Width ⁽²⁾ , MAV	ASTM D 4716	gal/min/ft (l/min/m)	3.8 (48)
Transmissivity ⁽²⁾	ASTM D 4716	gal/min/ft (m ² /s)	38 (8x10 ⁻³)
ESCR ⁽³⁾ , Typical	ASTM D 1693	Hours	>5,000
Oxidative Induction Time, min	ASTM D 3895	minutes	40

- Notes:
- (1) Test conditions 190°C /2.16 kg, tested on the resin.
 - (2) Measured using water at 21±2 °C (70 ± 4 °F) with gradient of 0.1 and confining pressure of 10,000 psf (480 kPa) between steel plates after 15 minutes seating time.
Values may vary with individual labs.
 - (3) 122°F (50°C), 100% Igepal, F50.

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