



# JUNIFOL HDPE GRI GM13

**JUNIFOL – HDPE (Smooth) is a high-density polyethylene membrane, for use in accordance with harmonised standards:**

- **BS EN 13361: Characteristics required for use in the construction of reservoirs and dams.**
- **BS EN 13362: Characteristics required for use in the construction of canals.**
- **BS EN 13492: Characteristics required for use in the construction of liquid waste disposal sites, transfer stations, or secondary containment.**
- **BS EN 13493: Characteristics required for use in the construction of solid waste storage and disposal sites.**
- **BS EN 15382: Characteristics required for use in the construction of transportation infrastructure.**

#### **Handling**

Roll Weights can be in excess of 200kg and hence appropriate care and equipment is required for unloading and handling.

#### **TITANTECH®**

For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

<b>Thickness</b>	0.75 mm or 1.0 mm or 1.5 mm or 2.0 mm or 2.5 mm or 3.0 mm
<b>Width</b>	5.1 m or 8.0 m
<b>Length</b>	85 m or 100 m or 120 m
<b>Density</b>	0.942 g/cm <sup>3</sup>



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Feature	Characteristic	Test Method	JUNIFOL HDPE GRI GM13 Thickness					
			0.75 mm	1.0 mm	1.5 mm	2.0 mm	2.5 mm	3.0 mm
<b>Material Properties</b>	Material	DSC Analysis	High Density Polyethylene (HDPE)					
	Width		5.1 m	5.1 m or 8.0 m				
	Length		100 m	100 m	100 m	120 m	100 m	85 m
<b>GRI-GM13 Properties</b>	Thickness (min. ave.) Lowest individual of 10 values	ASTM D 5199	0.75 mm (0.67 mm)	1.00 mm (0.9 mm)	1.50 mm (1.35 mm)	2.00 mm (1.8 mm)	2.50 mm (2.25 mm)	3.00 mm (2.7 mm)
	Density (min)	ASTM D 1505	0.942 g/cm <sup>3</sup>					
	Tear Resistance (min. ave.)	ASTM D 1004	100 N	125 N	187 N	249 N	311 N	374 N
	Puncture Resistance (min. ave.)	ASTM D 4833	250 N	320 N	480 N	640 N	800 N	960 N
	Stress Crack Resistance	ASTM D 5397	500 hr.	500 hr.	500 hr.	500 hr.	500 hr.	500 hr.
	Carbon Black Content	ASTM D 4218/6370	2-3 %	2-3 %	2-3 %	2-3 %	2-3 %	2-3 %
	Carbon Black Dispersion	ASTM D 5596	Min. 9 in Categories 1 or 2 and Max. 1 in Category 3					
<b>Tensile Properties (min. ave.)</b>	Yield Strength	ASTM D 6693 Type IV	12.00 kN/m	15.00 kN/m	22.00 kN/m	29.00 kN/m	37.00 kN/m	44.00 kN/m
	Break Strength	ASTM D 6693 Type IV	24.00 kN/m	27.00 kN/m	40.00 kN/m	53.00 kN/m	67.00 kN/m	80.00 kN/m
	Yield Elongation	ASTM D 6693 Type IV	12.00 %	12.00 %	12.00 %	12.00 %	12.00 %	12.00 %
	Break Elongation	ASTM D 6693 Type IV	700.00 %	700.00 %	700.00 %	700.00 %	700.00 %	700.00 %
<b>Oxidative Induction Time OIT (min. ave.)</b>	Standard OIT	ASTM D 8117 ASTM D 3895 ASTM D 5885	150 min.	150 min.	150 min.	150 min.	150 min.	150 min.
	High Pressure OIT	ASTM D 8117 ASTM D 3895 ASTM D 5885	500 min.	500 min.	500 min.	500 min.	500 min.	500 min.
	Oven Aging at 85° Standard OIT (min. ave.) % Retained after 90 days	ASTM D 5721 ASTM D 8117 ASTM D 3895 ASTM D 5885	80 %	80 %	80 %	80 %	80 %	80 %
	High Pressure (min. ave.) % Retained after 90 days		-	80 %	80 %	80 %	80 %	80 %
	UV Resistance	ASTM D 7238 ASTM D 5885	-	50	50	50	50	50.
	High Pressure OIT (min. ave.) % Retained after 1600 hours	ASTM D 7238 ASTM D 5885						

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## **JUTA UK**

Please contact JUTA  
UK Directly for more  
information on JUNIFOL  
HDPE

## **Storage**

Rolls of JUNIFOL HDPE should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged but should be protected from exposure to UV.

## **Installation**

JUNIFOL HDPE should be installed in accordance with the product installation guide.

## **Jointing and Sealing**

JUNIFOL HDPE should be jointed and sealed in accordance with the product installation guidelines.