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

Product: JUNIFOL HDPE

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.

JUNIFOL HDPE (smooth/smooth) - GEOMEMBRANE - GRI GM13								
			Thickness					
Characteristic	Test Method	Unit	0.75mm	1.0mm	1.5mm	2.0mm	2.5mm	3.0mm
Material Properties								
Material	DSC analysis		High Density Polyethylene (HDPE)					
Width		m	5.1	5.1 or 8.0				
Length		m	100	200	150	120	100	85
GRI-GM13 Properties								
Thickness (min. ave.) <small>Lowest individual of 10 values</small>	ASTM D 5199	mm	0.75 (-10%)	1.0 (-10%)	1.5 (-10%)	2.0 (-10%)	2.5 (-10%)	3.0 (-10%)
Density (min)	ASTM D 1505	g/cm ³	0.940					
Tensile Properties (min. ave.)								
Yield Strength	ASTM D 6693 type IV	kN/m	12.00	17.00	25.00	33.00	42.00	48.00
Break Strength		kN/m	24.00	30.00	45.00	58.00	75.00	85.00
Yield Elongation		%	12.00	12.00	12.00	12.00	12.00	12.00
Break Elongation		%	700.00	750.00	750.00	750.00	750.00	750.00
Tear Resistance (min. ave.)	ASTM D 1004	N	100	130	190	280	340	380
Puncture Resistance (min.ave.)	ASTM D 4833	N	250	350	550	700	850	1000
Stress Crack Resistance	ASTM D 5397	hr.	500	500	500	500	500	500
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	Category	min. 9 in Categories 1 or 2 and max. 1 in Category 3					
Oxidative Induction Time (OIT) (min. ave.)								
Standard OIT	ASTM D 3895	min.	100	100	100	100	100	100
High Pressure OIT	ASTM D 5885		-	400	400	400	400	400
Oven Aging at 85 °C								
Standard OIT (min. ave.) % retained after 90 days	ASTM D 5721 ASTM D 3895	%	55	55	55	55	55	55
High Pressure (min. ave.) % retained after 90 days	ASTM D 5885		-	80	80	80	80	80
UV Resistance								
High Pressure OIT (min. ave.) % retained after 1600 hours	ASTM D 7238 ASTM D 5885	%	-	50	50	50	50	50



Technical data



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HANDLING

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

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 guidelines.

JOINTING AND SEALING

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

ADDITIONAL INFORMATION

For additional information or assistance, please contact JUTA UK directly.

