

Junifol PEHD geosynthetic barriers

Characteristics required for use in the construction of:
 reservoirs and dams according to EN 13361
 canals according to EN 13362
 tunnels and underground structures according to EN 13491
 liquid waste disposal sites, transfer stations or secondary containment according to EN 13492
 solid waste storage and disposal sites according to EN 13493

Characteristic	Test Method	Unit	JUNIFOL PEHD				
			1,0	1,5	2,0	2,5	3,0
Material	DSC analysis		PE-HD				
Surface			G/G; G/Sa; Sa/Sa				
Width	EN 1848-2	m	5,1 or 8,0				
PHYSICAL PROPERTIES							
Thickness	EN 1849-2	mm	1,0 ±0,10	1,5 ±0,15	2,0 ±0,20	2,5 ±0,25	3,0 ±0,30
Density	EN ISO 1183	g/cm ³	> 0,940				
HYDRAULIC PROPERTIES							
Permeability to liquids	EN 14150	m ³ /(m ² .d)	U= 1,75 E-06 D= 1,66 E-06				
Gas permeability	ASTM D 1434	m ³ /(m ² .d)	3,29 E-03				
MECHANICAL PROPERTIES							
Tensile strength MD/CMD	EN ISO 527-1,3 Specimen Type 5 Velocity 100 mm/min	N/mm ²	30 / 30				
Elongation MD/CMD		%	800 / 800				
Strength at yield MD/CMD		N/mm ²	19 / 19				
Elongation at yield MD/CMD		%	12 / 12				
Puncture resistance	EN ISO 12236	kN	3,5	4,5	5,5	6,5	6,5
Tear strength	ISO 34-1	N/mm	130	140	140	140	140
THERMAL PROPERTIES							
Foldability at low temperature	EN 495-5	°C	- 20				
Linear thermal expansion coefficient	ASTM D 696	mm/(mm.K)	1,76 E-04				
DURABILITY AND CHEMICAL RESISTANCE							
Resistance to weathering	EN 12224		to be covered within 1 year durable and resistant for at least 25 years				
Resistance to oxidation	EN 14575		reduction of tensile strength and elongation: < 25 % of original values				
Stress crack resistance	ASTM D 5397-99	h	> 200				

Above mentioned data are average values and of informative character only. The manufacturer reserves the right to alter the specifications without prior notice. It is the responsibility of all users to satisfy themselves that the above specifications are current.

Other geosynthetic products:

Nonwoven geotextiles geoNETEX A PP; geoNETEX A PP T; geoNETEX A PP TT; geoNETEX A PP HTS; geoNETEX S07; geoNETEX M; geoNETEX M/B

Woven geotextiles Geojutex

Geomembranes Junifol PELLD

Drainage products PetexDren; Jutadrain C; Jutadrain M

Geogrids Jutagrid

Bentonite mats