

## Junifol PELLD 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 PELLD			
			1,0	1,5	2,0	2,5
Material	DSC analysis		PE-LLD			
Surface			G/G; G/Sa; Sa/Sa			
Width	EN 1848-2	m	8,0			
<b>PHYSICAL PROPERTIES</b>						
Thickness	EN 1849-2	mm	1,0 ±0,10	1,5 ±0,15	2,0 ±0,20	2,5 ±0,25
Density	EN ISO 1183	g/cm <sup>3</sup>	> 0,928			
<b>HYDRAULIC PROPERTIES</b>						
Permeability to liquids	EN 14150	m <sup>3</sup> /(m <sup>2</sup> .d)	U= 1,56 E-06 D= 1,46 E-06			
Gas permeability	ASTM D 1434	m <sup>3</sup> /(m <sup>2</sup> .d)	1,03 E-03			
<b>MECHANICAL PROPERTIES</b>						
Tensile strength MD/CMD	EN ISO 527-1,3 Specimen Type 5	N/mm <sup>2</sup>	30 / 30			
Elongation MD/CMD	Velocity 100 mm/min	%	750 / 750			
Puncture resistance	EN ISO 12236	kN	2,8	3,5	5,0	npd
Tear strength	ISO 34-1	N/mm	130	130	130	npd
<b>THERMAL PROPERTIES</b>						
Foldability at low temperature	EN 495-5	°C	- 20			
Linear thermal expansion coefficient	ASTM D 696	mm/(mm.K)	npd			
<b>DURABILITY AND CHEMICAL RESISTANCE</b>						
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			
O.I.T.	ASTM D 3895, EN 728 (200 °C)	min.	> 40			
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 PEHD  
**Drainage products** PetexDren; Jutadrain C; Jutadrain M  
**Geogrids** Jutagrid  
**Bentonite mats**