Datasheet geosynthetic barrier ENPEX FPP

MATERIAL PROPERTIES					
Property	Unit	Test method	Value		
Density	g/cm³	ISO 1183-87 ASTM D 1505	0.900 +/-0.01		
Melt flow range 190/2,16	g/10min	DIN ISO 1133 ASTM D 1238	0.15 - 1.0		
Carbon black content (TGA)	%	ASTM D 1603	2.0 - 3.0		
Carbon black dispersion		ASTM D 5596	A1 - A2		

DURABILITY					
Property	Unit	Test method	Value		
Oxidative induction time (OIT)	min	ASTM D 3895	> 100		
Stress crack resistance	h	DIN EN 14576	fulfilled		
Stress crack resistance	h	ASTM D 1693	> 2000		
Stress crack resistance	h	ASTM D 5397	> 300		
Weathering resistance	-	DIN EN 12224	fulfilled		
Root resistance	-	DIN EN 14416	fulfilled		
Microbiological resistance	-	DIN EN 12225	fulfilled		

FUNCTIONAL PROPERTIES					
Property	Unit	Test method	Value		
Foldability at low temperatures	°C	DIN EN 495-5	< -40		
Water absorption after 7 days	%	DIN ISO 175	< 0.20		
Dimensional stability	%	DIN 53377	+/- 2		

ENPEX FPP contains approx 97,5% of high quality polymers and 2,5% of carbon black, antioxidants and heat stabilizers.

Certifications such as CE according to EN 13361, EN 13362, EN 13491, EN 13492, EN 13493 und EN 13967; and ASQUAL made by independent test institutes confirm the quality and versatile application possibilities of our geomembranes. Our films have a 10 years warranty and are suitable for worldwide application even in climatically demanding regions.

MECHANICAL PROPERTIES								
Property	Unit	Test method	Value					
Thickess	mm		0,50	0,60	0,75	1,00	1,50	2,00
Tolerance of thickness	%	DIN 53370	+/- 5					
Tensile strength at break	Мра	DIN EN ISO 527	> 18	> 18	> 18	> 18	> 18	> 17
Elongation at break	%	ASTM D 638	> 750	> 750	> 750	> 750	> 750	> 800
Tear resistance	N/mm	DIN 53515 ASTM D 1004	> 45	> 45	> 45	> 45	> 45	> 45
Puncture resistance	N	FTMS 101C	> 120	> 130	> 150	> 170	> 210	> 300
Resistance to static loading		DIN EN 12730	fulfilled					
Bursting pressure	%	DIN 61551	> 200					
Static puncture	KN	DIN EN ISO 12236	1,00					

REMARKS

This information is no warranty. NPI does not take over any liability for the use of this information.



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OVER 60 YEARS OF EXPERIENCE • WORLDWIDE SERVICE

About NPI

NPI has now been manufacturing for over 60 years and has become one of Europe's major water storage experts. The cooperation with worldwide partners, dealers, agents and suppliers, combined with external independent engineers, the high quality materials and solutions supplied, is the base of our success. Success we share with our partners.

Certified quality

Besides various Certificates as KIWA, AEO and ISO 9001, we are committed to quality and continuous improvement. In addition to our commitment to excellent product quality, research and development means that our resellers can enhance their company's image by offering their customers good NPI value and an NPI water tank that will meet their needs for many years to come.







