

Geosynthetic barrier FPP

Material properties			
Property	Unit	Test method	Value
Density	g/cm ³	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 aftr 7 days	%	DIN ISO 175	< 0.20
Dimensional stability	%	DIN 53377	+/- 2

MECHANICAL PROPERTIES								
Property	Unit	Test method	Value					
Thickness	mm		0,50	0,75	1,00	1,50	2,00	
Tolerance of thickness	%	DIN 53370	+/- 5					
Tensile strength at break	Mpa	DIN EN ISO 527	> 18	> 18	> 18	> 18	> 17	
Elongation at break	%	ASTM D 638	> 750	> 750	> 750	> 750	> 800	
Tear resistance	N/mm	DIN 53515 ASTM D 1004	> 45	> 45	> 45	> 45	> 45	
Perforationswiderstand	N	FTMS 101C	> 120	> 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					

wepelen PE-HD 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 10years warranty and are suitable for worldwide application even in climatically demanding regions.

REMARKS

This information is no warranty. The company RKW-AG does not take over any liability for the use of this information.