

Datasheet

Gauris FPP

Geosynthetic barrier

About GAURIS

Gauris is all about liners. We think about liners. We live liners. We make everything watertight using liners. And we do that very well. The proof? We receive requests from across the world. It is usually custom work, as no two contracts are the same. Whether it is a swimming pond, water tank, waste heap, roof construction, or a swimming pool – no two projects are the same. They always involve bespoke work and demanding requirements. For the composition of the liner. For the strength.

For the shape. For the use and the required lifespan. For the appearance. For the colour. And for the way in which the liners are 'welded' to each other. After all, a liner is much more than just plastic on a roll. Much more.

Certified Quality

Besides various Certificates, we are committed to quality and continuous improvement.

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MATERIAL PROPERTIES			
Property	Unit	Test method	Value
Density	g/cm	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

MECHANICAL PROPERTIES									
Property	Unit	Test method	Value						
Thickness	mm		0,50	0,60	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	> 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. Gauris does not take over any liability for the use of this information.

Gauris FPP contains approx 97,5% of high quality polymers and 2,5% of carbon black, antioxidants and heatstabilizers.

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 are suitable for worldwide application even in climatically demanding regions.

