Power Plastics
Leaders in Cover Technology

DOUBLE MEMBRANE **GAS HOLDER**

PVC MATERIAL - TECHNICAL SPECIFICATIONS

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MATERIAL SELECTION

Biogas Membrane Material

Our standard biogas material offers a proven, high strength solution with a long product life and minimal gas permeability. Our membranes stay operational for many years longer than other materials in the market due to the specific material enforcement and optimised corrosion resistance against agressive biogas consituents.

Outer Membrane Material

Our standard external membrane material protects against the impact of extreme weather conditions such as snow, hail, thunderstorms and UV radiation. The proven formulation prevents the typical embrittlement of the material that is a result of the exposure to extreme weather conditions and ultimately protects the operation of your gas holder.

The following pages outline the Technical Specifications of all our membrane types and allows you to make direct comparisions against other Double Membrane Gas Holder providers.

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POWERPLAS B75311	**INNER MEMBRANE - TYPE III**		
Base Fabric	DIN 60001		PES - Low Wick 1670 dtex Panama 2:2
Coating			Sealed PVC
Total Weight (g/m2)	DIN EN ISO 2286-2		1050
Tensile Strength (N/5cm)	DIN 53354	Warp/Weft	6500/5700
Tear Strength (N)	DIN 53363	Warp/Weft	950/800
Adhesion (N/5cm)	DIN 53357		160
Permeability (Methane)	DIN 53380-2	(cm3/(m2/day/bar))	<100
Flame Retardancy	DIN 4102		B1
Temperature Resistance (oC)	DIN EN 1876-1		-30 to +70
Surface Resistance/Antistatic	DIN IEC 60093		$\leq 5^{10}$ Ω
Standard Colour			Grey

POWERPLAS B1915	**OUTER MEMBRANE - TYPE III**		
Base Fabric	DIN 60001		PES - Low Wick 1670 dtex Panama 2:2
Coating			Sealed PVC
Total Weight (g/m2)	DIN EN ISO 2286-2		1100
Tensile Strength (N/5cm)	DIN 53354	Warp/Weft	5750/5100
Tear Strength (N)	DIN 53363	Warp/Weft	950/800
Adhesion (N/5cm)	DIN 53357		120
Transulcency at 550nm (%)	DIN 5036		4-6%
Flame Retardancy	DIN 4102		B1
Temperature Resistance (oC)	DIN EN 1876-1		-30 to +70
Surface Resistance/Antistatic	DIN IEC 60093		$\leq 5^{10}$ Ω
Standard Colour			White

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POWERPLAS B75413	**INNER MEMBRANE - TYPE IV**		
Base Fabric	DIN 60001		PES - Low Wick 1670 dtex Panama 3:3
Coating			Sealed PVC
Total Weight (g/m2)	DIN EN ISO 2286-2		1300
Tensile Strength (N/5cm)	DIN 53354	Warp/Weft	7700/7200
Tear Strength (N)	DIN 53363	Warp/Weft	1200/1100
Adhesion (N/5cm)	DIN 53357		170
Permeability (Methane)	DIN 53380-2	(cm3/(m2/day/bar))	<100
Flame Retardancy	DIN 4102		B1
Temperature Resistance (oC)	DIN EN 1876-1		-30 to +70
Surface Resistance/Antistatic	DIN IEC 60093		10^9 Ω
Standard Colour			Grey

POWERPLAS B1618	**OUTER MEMBRANE - TYPE IV**		
Base Fabric	DIN 60001		PES - Low Wick 1670 dtex Panama 3:3
Coating			Sealed PVC
Total Weight (g/m2)	DIN EN ISO 2286-2		1300
Tensile Strength (N/5cm)	DIN 53354	Warp/Weft	7450/6400
Tear Strength (N)	DIN 53363	Warp/Weft	1400/1100
Adhesion (N/5cm)	DIN 53357		150
Transulcency at 550nm (%)	DIN 5036		4-6%
Flame Retardancy	DIN 4102		B1
Temperature Resistance (oC)	DIN EN 1876-1		-30 to +70
Surface Resistance/Antistatic	DIN IEC 60093		≤5^{10} Ω
Standard Colour			White

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POWERPLAS B71515	**INNER MEMBRANE - TYPE V**		
Base Fabric	DIN 60001		PES - Low Wick 2200 dtex Panama 3:3
Coating			Sealed PVC
Total Weight (g/m2)	DIN EN ISO 2286-2		1500
Tensile Strength (N/5cm)	DIN 53354	Warp/Weft	1000/9000
Tear Strength (N)	DIN 53363	Warp/Weft	1800/1600
Adhesion (N/5cm)	DIN 53357		180
Permeability (Methane)	DIN 53380-2	(cm3/(m2/day/bar))	<100
Flame Retardancy	DIN 4102		B1
Temperature Resistance (oC)	DIN EN 1876-1		-30 to +70
Surface Resistance/Antistatic	DIN IEC 60093		10^9 Ω
Standard Colour			Grey

POWERPLAS B1092	**OUTER MEMBRANE - TYPE V**		
Base Fabric	DIN 60001		PES - Low Wick 2200 dtex Panama 3:3
Coating			Sealed PVC
Total Weight (g/m2)	DIN EN ISO 2286-2		1450
Tensile Strength (N/5cm)	DIN 53354	Warp/Weft	9800/8300
Tear Strength (N)	DIN 53363	Warp/Weft	1800/1600
Adhesion (N/5cm)	DIN 53357		150
Transulcency at 550nm (%)	DIN 5036		4-6%
Flame Retardancy	DIN 4102		B1
Temperature Resistance (oC)	DIN EN 1876-1		-30 to +70
Surface Resistance/Antistatic	DIN IEC 60093		≤5^{10} Ω
Standard Colour			White

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