ENPEX FPP

HIGH QUALITY WATER STORAGE LININGS

NPI Water storage

ENPEX FPP geomembranes are commonly used in both water storage tanks and excavated reservoirs. Besides the excellent resistance against UV and weathering, it also combines great mechanical properties with a wide range of chemical resistance. ENPEX FPP material is a chemically inert and intrinsically flexible polymer that does not require additional plasticizers. It is very flexible and has excellent dimensional stability and wide temperature range.

NPI usually supplies the ENPEX FPP in the thickness of 0,6 mm, 0,75 mm and 1,0 mm, also to climatical demanding regions worldwide.

Processing

ENPEX FPP geomembranes can be conveniently wedge- or extrusion-welded and can easily be patched using a heat gun. The ability of ENPEX FPP to be factory fabricated and folded for transport to the installation site in large ready-to-use surfaces, offers a significant reduction in field seaming and installation time compared to the more rigid types of geomembranes.

Manure / slurry liners (certified)

When performance is critical

Manure storage is often governed by legislation. To comply with this, it is important that in a manure storage system a high-quality fluid tight manure liner is used. NPI as a company, its professional welders and the ENPEX FPP 0,75 and 1,0 mm are all certified by the international recognized certification body KIWA. We produce both excavated basins and liners for silos from the certified ENPEX FPP material.

Advantages

- Wide chemical resistance
- Good mechanical properties
- UV / weathering resistance
- Flexibility
- Prefabricated in factory under perfect circumstances
- Fast installation
- Comprehensive certification

PROPERTY	TEST METHOD	AVERAGE VALUES				
		0.30 mm	0.50 mm	0.60 mm	0.75 mm	1.0 mm
Thickness (mm)	EN 1849-2	0.30	0.50	0.60	0.75	1.0
Avg thickness tolerance (%)	EN 1849-2*	±5	±5	±5	±5	±5
Mass per unit (g/m²)	EN 1849-2	285	450	540	670	900
Carbon black content (%)	ASTM D4218	2-3	2-3	2-3	2-3	2-3
Density of membrane (g/cm³)	ASTM D 792	0.90-0.92	0.90-0.92	0.90-0.92	0.90-0.92	0.90-0.92
Melt flow index (gr/10min. 230°c/2.16kg)	ASTM D 1238	0.6	0.6	0.6	0.6	0.6
Tensile strength at break md (mpa)	EN ISO 527-1/3/5	24	24	24	24	24
Tensile strength at break td (mpa	EN ISO 527-1/3/5	19	19	19	19	19
Elongation at break md (%)	EN ISO 527-1/3/5**	900	900	900	900	900
Elongation at break td (%)	EN ISO 527-1/3/5**	900	900	900	900	900
Static puncture (n	EN ISO 12236	330	550	660	825	1100
Puncture resistance (n)	ASTM D 4833	70	115	128	170	200
Tear resistance (n)	ISO 34-1b	25	30	35	45	60
Oxidative induction time (min)	ASTM D 3895	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
Water tightness (m³/(m²/d)	EN 14150	<10-6	<10-6	<10-6	<10-6	<10-6

* Tolerance at any point ±10% ** Tensile properties : 100mm / min, 50mm Gauge Length

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

NPI

Water storage

• SPECIALISTS IN WATER STORAGE • PRODUCERS FROM THE VERY BEGINNING •

Who are we?

At NPI we specialize in water storage solutions, producing and exporting metal tanks and excavated basins all over the world. With our 65 years of experience, and over 150 years of combined experience and reliability, thousands of our water tanks have found their way into horticulture, aquaculture, agriculture, civil engineering, firefighting and other industries worldwide.

Certified quality for durable water storage solutions

A reliable supply of good quality water is a critical factor in many sectors. With our in-depth knowledge of different water markets and the most comprehensive certification package for processing plastic films, we know how to meet the necessary requirements for each industry.

Contact us

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