

Kemline PVC

Flexible High Strength, PVC Membrane

Quality Needs Quality

Description	Kemline PVC membrane is a thermoplastic synthetic membrane made by co-extrusion from plasticized PVC. It has different physical, chemical properties with high tearing strength, enhanced with 2 ply's in different colors. Multiple colors are available on request		
Where to use	<ul style="list-style-type: none"> • Waterproofing of basins and tanks • Waterproofing of canals and tunnels • Waterproofing of reservoirs 		
Advantages	<ul style="list-style-type: none"> • High resistance to tear • High elongation at break • High mechanical properties • No odor and zero - VOC • Resistance to perforation by roots • High puncture resistance • Used for fresh or salt water • Includes a signal layer 		
Properties			
Thickness ±5%	1.5 mm	2 mm	3 mm
Roll length/width	20 m / 2.1m – other lengths are available on request		
Water permeability - EN 1928 – DIN 53495	≤ 2%		
Water tightness to liquid water – EN 1296 - 1928	Waterproof		
Resistance to static loading – EN12730 – ASTM D751 ≥10 Bars	≥ 20 Kg	≥ 20 Kg	≥ 20 Kg
Tensile strength – EN 12311-2 – DIN 53455	Longitudinally ≥ 15 N/mm ²	Longitudinally ≥ 16 N/mm ²	Longitudinally ≥ 16 N/mm ²
	Machine Direction	Machine Direction	Machine Direction
	Transverse ≥ 15 N/mm ²	Transverse ≥ 15 N/mm ²	Transverse ≥ 16 N/mm ²
Elongation at break – EN12311-2 – DIN 53455	Cross Direction	Cross Direction	Cross Direction
	Longitudinally ≥ 300%	Longitudinally ≥ 300%	Longitudinally ≥ 300%
	Machine Direction	Machine Direction	Machine Direction
Resistance to impact – EN 12691 – ASTM D1709 – No perforation	Transverse ≥ 250% Cross Direction	Transverse ≥ 300% Cross Direction	Transverse ≥ 300% Cross Direction
	≥ 750 mm	≥ 800 mm	≥ 1000 mm
	Resistance to tear – EN 12310-1 – DIN 53363	≥ 400 N	≥ 500 N
Reaction to fire – EN 13501-1 – DIN 4102/1 – B1	Class E		
Joint strength – EN 12317-2	≥ 1000 N/50mm	≥ 1100 N/50mm	≥ 1100 N/50mm
Determination of water vapor transmission – EN 1931	≥ 18.000 μ ± 30%		
Peel resistance of joint – EN 12316-2	≥ 200 N/50mm	≥ 250 N/50mm	≥ 250 N/50mm
Dimensional stability – EN 1107-2 – ASTM D1204 – DIN 16726/53377	≤ ± 2%		
Foldability at low temperature – EN 495-5 – DIN 16729	-20 °C	-20 °C	-30 °C
Visible defects – EN 1850-2	Pass		
Effects of liquid chemicals, including water – EN 1847, 1928 (28 days at 23 °C)	Resistant		

Surface Preparation	<ul style="list-style-type: none"> • Surface must be sound, clean and dry, free from dust, laitance, grease • Sweep or vacuum any dust or loose particles • concrete compressive Strength after 28 days should be 25 Mpa and tensile bond 1.5 Mp
Application	<p>The PVC sheets are welded together by applying hot air or using:</p> <ul style="list-style-type: none"> • Manual welding machine with hot air • Automatic welding machine with hot air • Automatic welding machine with double track
Shelf life & Storage	<p>Kemline PVC has a shelf life of 36 months if kept in original packs in a dry condition</p>
Health and Safety	<ul style="list-style-type: none"> • Use goggles, gloves and a breathing mask when applying • Apply forced ventilation in confined spaces • Remove splashes from skin with hand cleaner or soap and water • Eye splashes to be washed with plenty of water
Additional Information	<p>PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure</p> <p>PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range for our customer's satisfaction</p> <p>PROKEM reserves the right to change the properties of its products</p> <p>All orders are accepted subject to our current term of sale & delivery</p> <p>Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request</p> <p>PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products</p>