

# Kemline PVC

Flexible High Strength, PVC Membrane

Description	<b>Kemline PVC</b> 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"> <li>Waterproofing of basins and tanks</li> <li>Waterproofing of canals and tunnels</li> <li>Waterproofing of reservoirs</li> </ul>		
Advantages	<ul style="list-style-type: none"> <li>High resistance to tear</li> <li>High elongation at break</li> <li>High mechanical properties</li> <li>No odor and zero - VOC</li> <li>Resistance to perforation by roots</li> <li>High puncture resistance</li> <li>Used for fresh or salt water</li> <li>Includes a signal layer</li> </ul>		
Properties			
Thickness $\pm 5\%$	1.5 mm	2 mm	3 mm
Roll length/width	20 m / 2.2m – other lengths are available on request		
Water permeability - EN 1928 – DIN 53495	$\leq 2\%$		
Water tightness to liquid water – EN 1296 - 1928	Waterproof		
Resistance to static loading – EN12730 – ASTM D751 $\geq 10$ Bars	$\geq 20$ Kg	$\geq 20$ Kg	$\geq 20$ Kg
Tensile strength – EN 12311-2 – DIN 53455	Longitudinally $\geq 15$ N/mm <sup>2</sup>	Longitudinally $\geq 16$ N/mm <sup>2</sup>	Longitudinally $\geq 16$ N/mm <sup>2</sup>
	Machine Direction	Machine Direction	Machine Direction
	Transverse $\geq 15$ N/mm <sup>2</sup>	Transverse $\geq 15$ N/mm <sup>2</sup>	Transverse $\geq 16$ N/mm <sup>2</sup>
Elongation at break – EN12311-2 – DIN 53455	Cross Direction	Cross Direction	Cross Direction
	Longitudinally $\geq 300\%$	Longitudinally $\geq 300\%$	Longitudinally $\geq 300\%$
	Machine Direction	Machine Direction	Machine Direction
Resistance to impact – EN 12691 – ASTM D1709 – No perforation	Transverse $\geq 250\%$	Transverse $\geq 300\%$	Transverse $\geq 300\%$
	Cross Direction	Cross Direction	Cross Direction
	$\geq 750$ mm	$\geq 800$ mm	$\geq 1000$ mm
Resistance to tear – EN 12310-1 – DIN 53363	$\geq 400$ N	$\geq 500$ N	$\geq 500$ N
Reaction to fire – EN 13501-1 – DIN 4102/1 – B1	Class E		
Joint strength – EN 12317-2	$\geq 1000$ N/50mm	$\geq 1100$ N/50mm	$\geq 1100$ N/50mm
Determination of water vapor transmission – EN 1931	$\geq 18.000 \mu \pm 30\%$		
Peel resistance of joint – EN 12316-2	$\geq 200$ N/50mm	$\geq 250$ N/50mm	$\geq 250$ N/50mm
Dimensional stability – EN 1107-2 – ASTM D1204 – DIN 16726/53377	$\leq \pm 2\%$		
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"> <li>• Surface must be sound, clean and dry, free from dust, laitance, grease</li> <li>• Sweep or vacuum any dust or loose particles</li> <li>• concrete compressive Strength after 28 days should be 25 Mpa and tensile bond 1.5 Mp</li> </ul>
Application	<p>The PVC sheets are welded together by applying hot air or using:</p> <ul style="list-style-type: none"> <li>• Manual welding machine with hot air</li> <li>• Automatic welding machine with hot air</li> <li>• Automatic welding machine with double track</li> </ul>
Shelf life & Storage	<b>Kemline PVC</b> has a shelf life of 36 months if kept in original packs in a dry condition
Health and Safety	<ul style="list-style-type: none"> <li>• Use goggles, gloves and a breathing mask when applying</li> <li>• Apply forced ventilation in confined spaces</li> <li>• Remove splashes from skin with hand cleaner or soap and water</li> <li>• Eye splashes to be washed with plenty of water</li> </ul>
Additional Information	<p><b>PROKEM</b> 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><b>PROKEM</b> 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><b>PROKEM</b> reserves the right to change the properties of its products</p> <p>All orders are accepted subject to our current term of sale &amp; 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><b>PROKEM</b> extends technical services to include after-sales support to assist users in the proper handling of our products</p>