



Technical Data Sheet

PVC40 – 40 Mil Polyvinyl Chloride Geomembrane

Properties	Test Method	PVC40	
		Metric Units	English Units
Thickness ($\pm 5\%$) ⁽¹⁾	ASTM D1593	1.0 mm	40 mil
Specific Gravity (<i>typ.</i>) ⁽²⁾	ASTM D792	1.2 g / cm ³	1.2 g / cm ³
Tensile Properties (<i>min. avg.</i>) ⁽¹⁾	ASTM D882		
<i>Break Strength</i>		17 kN / m	97 lbs / in
<i>Elongation at Break</i>		430 %	430 %
<i>Modulus at 100%</i>		7 kN / m	40 lbs / in
Tear Resistance (<i>min. avg.</i>) ⁽¹⁾	ASTM D1004	44 N	10 lbf
Low Temp. (<i>pass</i>) ⁽¹⁾	ASTM D1790	-29 °C	-20 °F
Dimensional Stability ⁽¹⁾	ASTM D1204	3.0 %	3.0 %
Water Extraction (<i>max. loss</i>) ⁽²⁾	ASTM D3083	0.20 %	0.20 %
Volatile Loss (<i>max. loss</i>) ⁽¹⁾	ASTM D1203	0.5 %	0.5 %
Soil Burial ⁽²⁾	ASTM G-160		
<i>Breaking Strength</i>		$\pm 5\%$	$\pm 5\%$
<i>Elongation at Break</i>		$\pm 20\%$	$\pm 20\%$
<i>100% Modulus</i>		$\pm 20\%$	$\pm 20\%$
Hydrostatic Resistance (<i>min.</i>) ⁽²⁾	ASTM D751	830 kPa	120 lbs / in ²
Specifications for Factory Seams Strengths			
Peel Strength (<i>min. avg.</i>)	ASTM D6392	2.6 kN / m	15 lbs / in
Shear Strength (<i>min. avg.</i>)	ASTM D6392	14 kN / m	78 lbs / in

1. Testing frequency is once per lot, or once every 40,000lbs (18,144 kgs)
2. Testing frequency is once per formulation

General Information	Metric Units	English Units
Panel Width Multiples	2.16 m	85.0 in
Weight ⁽¹⁾	1.33 kg / m ²	0.272 lbs / ft ²