

## Product Description

**Insuwrap** PVC water tank internal liner 1500 LNTR is calendered high polymer waterproofing membrane, (thickness 1.50 mm) reinforced with polyester mesh, not compatible with bitumen, manufactured to the highest International standards offering high physical properties and long term durability. **Insuwrap** 1500 LNTR is manufactured using the best raw materials produced by SABIC

Test	ASTM (D 2240, D792, D638) STANDARD Requirements	Results, 1500 LNTR
Overall thickness of PVC sheet, min, mm	1.50	1.50
Tensile strength at break, min, MPa (psi): Machine direction	10.4 (1500)	>14.3 (2070)
Cross-machine direction	10.4 (1500)	>15.7 (2260)
Elongation at break, min, % Machine direction	250	>300
Cross-machine direction	220	>300
Seam strength, min, % of tensile or breaking strength	75	>82
Retention of properties after heat aging: Tensile strength, min, % of original	90	>90%
Elongation, min, % of original	90	>90%
Tear resistance, min, N (bf)	45.0 (10.0)	>65 (14.5)
Low temperature bend	Pass	Pass
Tensile Modulus (psi)	Cross direction	1210.6
100 % Modulus (psi)	Both direction	731.0
Specific Gravity	----	1.28
Hardness, Shore A	----	80 ±1
Linear dimensional change, max, %	0.1	<0.07
Change in weight after immersion in water, max, %	±3.0	< ±1.0
Static Puncture Resistance	Pass	Pass
Dynamic Puncture Resistance	Pass	Pass
Fire Class	ASTM E108	Pass (Class B)

Test	DIN 16735 STANDARD Requirements	Results, 1500 LNTR
Thickness (mm)		1.50
Mass (kg/m <sup>2</sup> )		1.96
Tensile strength (N/mm <sup>2</sup> )	Min 8.0 N/mm <sup>2</sup>	> 14.0
Elongation at break	Min 150%	> 300%
Thermal stability (6hrs - 90°C)	Less than 1%	<0.1%
Tear Strength (N)	Min 80 N	> 100N
Puncture resistance	Drop hammer 500gms, from 300mm no leak	Passed
Water vapour defusion resistance (u)	Less than 30,000	< 22,000
Cold bend	No cracks at -20°C	No cracks at - 30°C
Resistance to Algea & rot		High resistance
Fire class	DIN 4102	Pass (Class B2)