

### EP4

# elaSTOPER

<b>PRODUCT SPECIFICATIONS</b>  TS EN 13707 & TS EN 13969		Modification of Bitumen		SBS ( Stiren Butadien Strien) modified
		Reinforcement		Polyester
		Upper surface coating		PE
		Lower surface coating		PE
Name of the Test	Unit	Tolerance	Value	
Visual defects	TS EN 1850-1	...	...	none
Thickness	TS EN 1849-1	mm	±0,2	3
Length	TS EN 1848-1	m	min(-0,03)	10
Width	TS EN 1848-1	cm	min(-2)	100
Straightness	TS EN 1848-1			pass
Watertightness	TS EN 1928 Mt.A / Mt. B*	10kPa/60kPa*		pass
Dimensional stability	TS EN 1107-1	%	max	≤0,6
Flexibility at low temperature	TS EN 1109 / ASTM D-5147	°C	≤	-20
Flow resistance at elevated temperature	TS EN 1110 / ASTM D-5147	°C	≥	100
Tensile strength (MD/CMD)	TS EN 12311-1	N/50mm	min	800/600
Elongation (MD/CD)	TS EN 12311-1	%	min	35/35
Impact resistance	TS EN 12691 Mtd.A	mm	min	1250
Resistance to static loading	TS EN 12730 Mtd.A / Mtd B*	Kg	min	20*
Sheer resistance of joints	TS EN 12317-1	N/50mm	±20%	535
Peel resistance of joints	TS EN 12316-1	N/50mm	±30%	70
Tearing resistance (with nail)	TS EN 12310-1	N/50mm	±20%	220
Reaction to Fire	TS EN 11925-2	class		E
External Fire Performance	ENV 1187-2	class		NPD
Form stability under cyclical temp. changes	TS EN 1108			NPD
Water vapour properties	TS EN 1931		min	20 000
Watertightness after stretching	TS EN 13897			NPD
Resistance to root penetration	EN 13948			NPD
Artificial ageing +Cold flexibility	TS EN 1296/TS EN 1109	°C	0+10	NPD
Artificial ageing +Flow resistance	TS EN 1296/TS EN 1110	°C	0+10	NPD
Artificial ageing +Watertightness	TS EN 1296/TS EN 1928	2kPa / 60kPa*		pass
Adhesion of granules	TS EN 12039	%	max	NPD
Resistance to chemicals	TS EN 1847			NPD
Dangerous substances	...	one/none		none