



SAPPHIRE P 4KG MINERAL GREY PRODUCT SPECIFICATIONS

TS EN 13707

Modification of Bitumen

APP (Atactic Polypropylene)
modified membranes

Reinforcement

Polyester

Upper surface coating

Grey Slate

Lower surface coating

PE

Name of the Test	Method	Unit	Tolerance	Value
Mass per unit Area	TS EN 1849-1	kg/m ²	±10%	4
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	%	≤	0,6
Flexibility at low temperature	TS EN 1109 / ASTM D-5147	°C	≤	0
Flow resistance at elevated temperature	TS EN 1110 / ASTM D-5147	°C	≥	110
Tensile strength (MD/CMD)	TS EN 12311-1	N/50mm	±25%	480/320
Elongation (MD/CD)	TS EN 12311-1	%	±25%	25/25
Impact resistance	TS EN 12691 Mtd.A	mm	min	800
Resistance to static loading	TS EN 12730 Mtd.A	Kg	min	10
Sheer resistance of joints	TS EN 12317-1	N/50mm	±20%	280
Peel resistance of joints	TS EN 12316-1	N/50mm		NPD
Tearing resistance (with nail)	TS EN 12310-1	N		NPD
Reaction to Fire	TS EN 11925-2	class		E
External Fire Performance	ENV 1187-2	class		Broof
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	±5	7
Artificial ageing +Flow resistance	TS EN 1296/TS EN 1110	°C	±10	100
Watertightness -Type A	TS EN 1296/TS EN 1928	2kPa / 60kPa*		pass
Adhesion of granules	TS EN 12039	%	max	30
Dangerous substances	...	none/none		none

