Optima Green-Energy Minerale

Description	LEED-compliant membrane for the circular economy with a high recycled content, manufactured from distilled bitumen modified with APAO polyolefins and a reinforced, stabilized continuous-filament polyester reinforcement; suitable for new construction and r
CE	Single layer for roofing systems in accordance with EN13707. Layer for foundation waterproofing works in accordance with EN13969.
Field of use	Exposed not-accessible roofs and Technical roofs. Pitch roofs.
Certifications and Agreements	CE marking - FPC certificate number 1370-CPR-0042 . ITC Technical Agreement n°618
Composition	**Top Surface**: Mineral slate or Granules **Back Surface**: Film **Reinforcement**: Polyester reinforced with fiber glass
Method of application	Fully torch applied
Dimension and packaging	**Optima Minerale** Thickness (mm) 4,0 on selvedge Weight (kg/m2) Rolls (m) 1X8

Property	Test Method	Unit	Value	Tollerance
Lenght	EN 1848-1	m	8,0	-1%
Width	EN 1848-1	m	1,0	-1%
Thickness on selvedge	EN 1849-1	mm	4,0	±0,2
Weight	EN 1849-1	Kg/m2	NPD	±10%
Tensile strength at max	EN 12 311-1	L x T (N/50mm)	900/750	-20%
Elongation at max	EN 12 311-1	L x T (%)	50/50	-15
Nail tearing resistance	EN 12 310-1	L x T (N)	200/200	-30%
Static load	EN 12 730	Kg	25	≥
Resistance to impact	EN 12691	mm	1250	≥
Joints Shear resistance	EN 12317-1	N / 50mm	700/700	-20%
Flexibility at low temperature	EN 1109	(°C)	-25	≤
Flow resistance at elevated temperature	EN 1110	(°C)	140	≥
Dimensional stability	EN 1107-1	%	±0,3	≤
Flexibility at low temperature after thermal ageing	EN1296 EN 1109	(°C)	-25	+15
Flow resistance at elevated Temperature after thermal aeging	EN1296 EN 1110	(°C)	140	-10
Long exposure ageing - UV radiations combined with heat and water	EN1297 EN1850-1	-	NPD	-
Watertightness	EN 1928-B	kPa	60	≥
Reaction to fire	EN 13501-1	-	E	-
External fire performance	EN 13501-5	-	Froof	-

Storage	This product is packaged in rolls set up vertically on pallet or wooden box. It must be stored vertically under shelter, away from heat sources.
Modifications	Our company reserves the right to modify its composition as a result of technologic and experiments improvements. This product data sheet supersedes the previous edition, to obtain the updated technical data sheet, please contact our technical department.