

SPESIFIKASI DATA TEKNIS



PROPERTIES	TEST	UNIT	TEST METHOD	TOLERANCE	PRODUCT PBF/PBS/PBG
Dimensional Properties	Thickness	mm	EN - 1849 - 1	± 5%	3 & 4
	Weight (Mass Per Unit Area)	Kg/m ²	EN - 1849 - 1	± 10%	-
	Determination of Width	m	EN - 1848 - 1	± 1 %	1
	Determination of Length	m	EN - 1848 - 1	± 1 %	10
	Straightness (Ortometry)	mm	EN - 1848 - 1	-	±10
	Surface finish Top	-	-	-	PE Film, Sanded, Granule
	Surface Finish Botom	-	-	-	Film
Compound Properties	Softening point (R&B)	°C	ASTM D-36	Min.	150
	Compound Elongation	%	UNI 8202/8	± 15%	-
Mechanical Properties	Tensile Strength - L/T	N/50mm	EN - 12311 - 1	± 20%	650/400
	Elongation at Break - L/T	%	EN - 12311 - 1	± 15	30/35
	Tearing Strength - L/T (Nail-Shank)	N	EN - 12310 - 1	± 30	175/225
	Tensile Tear Resistance - L/T	N	ASTM D-5147.D-4073	± 30	550/325
	Resistance to Static Loading	Kg	EN - 12730 Method A	Min.	15
	Dynamic Puncturing (impact resistance)	mm	EN - 12691 Method B	Min.	450
Thermal Properties	Flow Resistance at Elevated Temperature	°C	EN - 1110	Min.	100
	Flexibility at low temperature	°C	EN - 1109	-	+5
	Dimesional Stability	%	EN - 1107-1	Max	±0.5
	Water Impermeability - Watertighness at Low Pressure	60 Kpa	EN - 1028 Method A	-	Passed
	Water Impermeability - Watertighness at High Pressure	Kpa	EN - 1028 Method B	Min.	100
Miscelleaneous Properties	Water Absorption	%	ASTM D 5147	Max.	< 1
	Vapour Permeability	μ	EN - 1931	Min.	20000
	Fatigue resistance on cracks	200 Cycles	UNI 8202/13	-	-
		500 Cycles			
	Shear resistance of Joins - L/T	N/50mm	EN - 12317-1	± 20%	650/400
	Thermal Ageing in Air(in oven 28 days at 70 °C)	-	UNI 8202/26	-	-
	Ageing Due to Atmospheric Agents (U.V test Weathering)	-	ASTM G 53 UNI 8202/29	-	-
	Fatigue resistance on Joints	200 Cycles	UNI 8202/13	-	-
		500 Cycles			
	Fire Classification - external Fire Performance	Class	EN - 13501 -5/ENV 1187	-	Roof F
	Reaction to Fire	Class	EN - 13501-1	-	E
	Adhesion of Granules	%	EN - 12039	Max	-
	Adhesion to Concrete (torch Applied)	N/50mm	Pelage UEAtc	-	20
Resistance to root penetration	-	EN - 13948	-	NPD	

Nilai rata-rata yang dinyatakan diatas mewakili kinerja terbaik yang dicapai pada pengetesan terkini, kemungkinan TBM untuk mengubah, tanpa peringatan, karakteristik teknis untuk membuat produk lebih mudah diaplikasi di market. Pemilihan tipe membran untuk jenis penggunaan adalah tergantung pada keputusan konsumen.

PBF: Polymer Bitumen Film

PBS: Polymer Bitumen Sand

PBG: Polymer Bitumen Granule