



PRODUCT TRADE NAME	DERMABIT POLYESTER MINERAL FIREOFF***			
MISSION	Elastoplastomeric membrane (BPP-APAO) flame retardant, certified to EN 1187-2 in class Broof T2 (EN 13501-5:2005)			
DESCRIPTION OF PRODUCT FAMILY	The FireOff technology is the result of CASALI's research on innovative special additive with high resistance to the propagation of flame. This has allowed the DERMABIT® POLYESTER MINERAL FIREOFF compound in BPP-APAO, to have excellent fire resistance properties. The special reinforcement ensures excellent mechanical performance and dimensional stability, as well as the obtaining of the classification Broof T2* for exposed one layer applications or multilayer directly applied on flammable and nonflammable substrates. Also suitable under photovoltaic systems with class PV modules 2 of reaction to fire, or equivalent.			
FEATURES	CARRIER TYPE	COMPOUND	FINISHING (TOP / BOTTOM)	
	HSP POLYESTER	BPP-APAO	SLATE FLAKES / POLYETHYLENE	
SYSTEMS	EN 13707 - Multilayer system without permanent surface protection – top layer EN 13707 - Single layer system without permanent surface protection			
CHARACTERISTIC	TEST METHOD	UNITS	EXPRESSION OF RESULT	VALUE
Visible difects	EN 1850 -1	Statement	Pass	Pass
Length	EN 1848 -1	m	± 0.5 %	8
Width	EN 1848 -1	m	± 1.0 %	1
Thickness	EN 1849 -1	mm	± 5.0 %	4*
Mass per unit area	EN 1849 -1	Kg/m ²	± 10 %	-
Tensile properties (maximum tensile force): L	EN 12311-1	N/5 mm	± 20 %	700
Tensile properties (maximum tensile force): T	EN 12311-1	N/5 mm	± 20 %	600
Tensile properties (elongation): L	EN 12311-1	%	± 15 ass.	35
Tensile properties (elongation): T	EN 12311-1	%	± 15 ass.	45
Resistance to tearing (nail shank): L	EN 12310-1	N	± 30 %	170
Resistance to tearing (nail shank): T	EN 12310-1	N	± 30 %	170
Shear resistance of joints: L	EN 12317-1	N/5 cm	± 20 %	800
Shear resistance of joints: T	EN 12317-1	N/5 cm	± 20 %	600
Peel resistance of joints	EN 12316 -1	N/5 cm	≥	40
Resistance to impact (met. A)	EN 12691	mm	≥	1250
Resistance to static loading (met. B)	EN 12730 -1	kg	≥	20
Dimensional stability: L	EN 1107-1	%	≤	± 0.2
Dimensional stability: T	EN 1107-1	%	≤	± 0.2
Flexibility at low temperature	EN 1109	°C	≤	-20
Flexibility at low temperature after aging	EN 1296 – EN 1109	°C	≤	-20
Flow resistance at elevated temperature	EN 1110	°C	≥	150
Flow resistance at elevated temperature after aging	EN 1296 - EN 1110	°C	≥	140
External fire performance	EN 13501-5	class	Pass	Broof T2**
Reaction to fire	EN 13501-1	class	Pass	E



CHARACTERISTIC	TEST METHOD	UNITS	EXPRESSION OF RESULT	VALUE
Root resistance	EN 13948	Statement	Pass	NPD
Watertightness	EN 1928:2000 Met. A	kPa	≥	60
Artificial aging by combination of UV radiation and water	EN 1297	Statement	Pass	NPD
<p>* Thickness excluding slate ** Tested on EPS substrate by LAPI - Report nr.244.0AE0082/17 *** Tested to HAIL RESISTANCE by ISTITUTO GIORDANO according EN 13583 - Report nr. 411680: damage speed HARD support: 44 m/s damage speed SOFT support: 17 m/s</p>				
<p>All tolerances as per EN 13707, EN 13969, EN 14695, EN 13859-1, EN 13970 e Linee Guida AISPEC-MBP. NPD = No performance declaration; L = Longitudinal; T = Transversal.</p>				
<p>Vapor permeability $\mu = 20.000$ Thermal conductivity = 0,2 W/Mk</p>				
<p>Packaging: rolls dimension: 1.00 x 8.00 ml rollsi per pallet: 20</p>				
<p>The technical data provided refer to the average results of tests carried out on products and may be modified by CASALI S.p.A. without prior notice. The values and tolerances comply with UNI EN 13707, UNI EN 13969 and UNI EN 14695 regulations and UEAtc Directives. The standard warranty covering specific characteristics of different types of membranes does not include appearance and finish which may vary according to the combined effect of different environmental factors. Manufacture declines all and any liability in the case of improper use of the materials indicated herein. For more information please contact Casali's Technical Office.</p>				
<p>The product does not contain asbestos, asphalt within the meaning of D.LGS (legislative decree) n° 285/98</p>				