

Product Family Overview

	Test	Units	Enkamat® 7010 /1	Enkamat® 7010 /2	Enkamat® 7010 /4	Enkamat® 7018 /1	Enkamat® 7018 /2	Enkamat® 7018 /4	Enkamat® 7020 /1	Enkamat® 7020 /2
Mechanical Properties										
Polymer		kg/dm ³	PA	PA	PA	PA	PA	PA	PA	PA
Weight	EN ISO 9864	g/m ²	260	260	260	290	290	290	400	400
Thickness		mm	10	10	10	18	18	18	17	17
Tensile strength - MD	EN ISO 10319	kN/m	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2
Tensile strength - CMD	EN ISO 10319	kN/m	1.5	1.5	1.5	1.2	1.2	1.2	1.6	1.6
Elongation at maximum load - MD	EN ISO 10319	%	110	110	110	80	80	80	80	80
Elongation at maximum load - CMD	EN ISO 10319	%	100	100	100	80	80	80	80	80
Static puncture resistance (CBR)	EN ISO 12236	kN	-	-	-	-	-	-	-	-
Dynamic perforation resistance (cone dr)	EN ISO 13433	mm	-	-	-	-	-	-	-	-
Density		kg/dm ³	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Temperature resistance		°C	-40/80	-40/80	-40/80	-40/80	-40/80	-40/80	-40/80	-40/80
Inflammability	DIN 4102		B2	B2	B2	B2	B2	B2	B2	B2
Structure Type			open	open	open	open	open	open	open	open
3 dimensional structure providing free vol		%	>95	>95	>95	>95	>95	>95	>95	>95
Soil retention factor		m/m ²	1810	1810	1810	1290	1290	1290	1420	1420

Dimensions

Roll Length (+/- 1%)	m	150	150	150	120	120	120	100	100
Roll Width (+/- 1%)	m	1.0	1.95	3.85	1.0	1.95	3.85	1.0	1.95
Length of roll	m	1.03	1.95	3.85	1.03	1.95	3.85	1.03	1.95
Roll diameter (+/- 10%)	m	1.15	1.15	1.1	1.25	1.3	1.3	1.2	1.3
Gross weight	kg	40	82	164	36	74	147	41	84

Prescription of installation

Ageing	Good resistance to weathering and radiation
Chemical Resistance	Resistant to all chemicals in concentrations which are normally contained in the earth and surface water.
Toxicity	None; approved for use in potable water reservoirs; Enkamat is inert and not harmful to the environment.
Rodent damage	No nutritive value; the tangled structure of the mat is unpleasant to burrowing animals and rodents.

The Quality Management System of Low & Bonar has been approved to the ISO 9001 Quality Management System Standard. Certificates are available on request.



The information set forth in this data sheet reflects the best knowledge at the time of publication. The document is subject to change pursuant to new developments and findings. The same reservation applies to the properties of the products described. No liability is undertaken for results obtained by usage of the products and information.



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Product Family Overview

	Test	Units	Enkamat® 7020 /4	Enkamat® 7210 /1 30 m	Enkamat® 7210 /1 120 m	Enkamat® 7220 /1	Enkamat® 7220 /2	Enkamat® 7220 /4	Enkamat® 7225 /1	Enkamat® 7225 /2
Mechanical Properties										
Tensile strength - MD	EN ISO 10319	kN/m	2.2	1.5	1.5	2.0	2.0	2.0	2.1	2.1
Tensile strength - CMD	EN ISO 10319	kN/m	1.6	2.0	2.0	2.2	2.2	2.2	2.2	2.2
Elongation at maximum load - MD	EN ISO 10319	%	80	100	100	100	100	100	65	65
Elongation at maximum load - CMD	EN ISO 10319	%	80	50	50	60	60	60	50	50
Tensile strength at 2% elongation - MD										
Tensile strength at 2% elongation - CMD										
Tensile strength at 5% elongation - MD										
Tensile strength at 5% elongation - CMD										
Properties Fleece										
Static puncture resistance (CBR)	EN ISO 12236	kN								
Dynamic perforation resistance (cone dr)	EN ISO 13433	mm								
Water permeability normal to the plane (Δ	EN ISO 11058	m/s								
Characteristic Opening Size (O90)	EN ISO 12956	µm								
Physical Properties										
Weight	EN ISO 9864	g/m ²	400	260	260	400	400	400	650	650
Roll Width (+/- 1%)		m	3.85	1.0	1.0	1.0	1.95	3.85	1.0	1.95
Roll Length (+/- 1%)		m	100	30	120	60	60	60	60	60
Truck Load Volume (+/- 10%)										
Roll diameter (+/- 10%)		m	1.2	0.65	1.1	1.2	1.2	1.06	1.2	1.2
Durability			Description							
Natural UV light			Polymer				PA			
Chemical Resistance			Density				1.14 kg/dm ³			
Microbiological Resistance			Melting Point				215 °C			
Hydrolysis			Construction							
Oxidation resistance										

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Product Family Overview

	Test	Units	Enkamat [®] 7018	/1
Mechanical Properties				
Tensile strength - MD	EN ISO 10319	kN/m	2.0	
Tensile strength - CMD	EN ISO 10319	kN/m	1.2	
Elongation at maximum load - MD	EN ISO 10319	%	80	
Elongation at maximum load - CMD	EN ISO 10319	%	80	
Tensile strength at 2% elongation - MD				
Tensile strength at 2% elongation - CMD				
Tensile strength at 5% elongation - MD				
Tensile strength at 5% elongation - CMD				
Properties Fleece				
Static puncture resistance (CBR)	EN ISO 12236	kN		
Dynamic perforation resistance (cone dr)	EN ISO 13433	mm		
Water permeability normal to the plane (ʹ)	EN ISO 11058	m/s		
Characteristic Opening Size (O90)	EN ISO 12956	µm		
Physical Properties				
Weight	EN ISO 9864	g/m ²	290	
Roll Width (+/- 1%)		m	1.0	
Roll Length (+/- 1%)		m	120	
Truck Load Volume (+/- 10%)				
Roll diameter (+/- 10%)		m	1.25	
Durability			Description	
Natural UV light			Polymer	PA
Chemical Resistance			Density	1.14 kg/dm ³
Microbiological Resistance			Melting Point	215 °C
Hydrolysis			Construction	
Oxidation resistance				

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