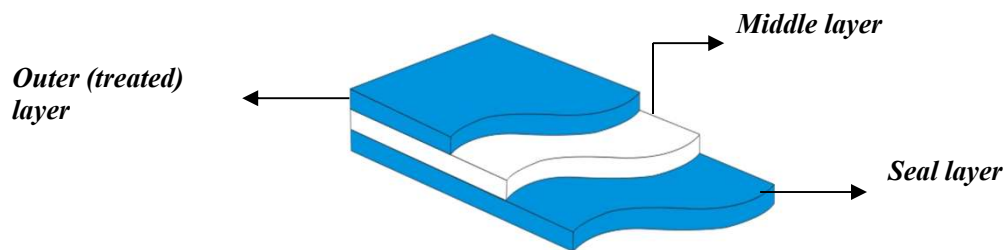


## TECHNICAL SPECIFICATION

# ML132

### CONSTRUCTION



### FEATURES AND APPLICATIONS

- Suitable for PET, OPP, PVC, Metallized PET, Metallized OPP, Al, OPA or Paper lamination.
- Improved sealing performance through contamination.
- Improved Hot-tack properties.
- Improved tear and puncture resistance.
- Suitable for high speed machines.

### CERTIFICATION

Films comply with the requirements "COMMISSION REGULATION (EU) No 10/2011 on plastic materials and articles intended to come into contact with food". All films are produced in ISO 9001, ISO14001 certified facilities and have been approved by the British Retail Consortium (BRC).

### PRODUCT and FOOD SAFETY

For more information please request Material Safety Data Sheet (MSDS) and Food Contact Declaration.

### SHELF LIFE and STORAGE

The shelf life of the product is 6 months after production if it is stored in dry conditions, away from exposure to direct sunlight and at normal room conditions.

PROPERTIES									
Parameter	Unit		Value					Test Method	
Thickness	micron		20	25	30	35	40	BAREKS TEST	
	gauge		80	100	120	140	160		
Density	g/cm <sup>3</sup>		0,926	0,926	0,926	0,926	0,926	BAREKS TEST	
Yield	m <sup>2</sup> /kg		54,00	43,20	36,00	30,85	27,00	BAREKS TEST	
CoF	ln / ln		≤ 0,3					ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	14,5	16	19	21	23,1	ASTM D882
	TD		± 6	9,5	11	12	14	18,5	
Elongation at Break	MD	mm	± 100	120	140	140	150	170	ASTM D882
	TD		± 100	230	270	330	350	370	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	11	12,5	18	20	20,5	BAREKS TEST
		mm	± 50	95	100	130	140	145	
Gloss	≥%		80	80	80	80	80	ASTM D2457	
Haze	≤%		16	16	16	16	16	ASTM D1003	
Clarity	≥%		90	90	90	90	90		
Transmittance	≥%		85	85	85	85	85		

The above information is the result of laboratory tests, which are applied on samples from standard production. Since the varying conditions under which our products used are beyond our control, all of the above results are without guarantee and warranty. Users are advised to conduct their own testing of our products to determine suitability for use alone or in combination with other products.

PROPERTIES							
Parameter	Unit		Value			Test Method	
Thickness	micron		45	50	55	BAREKS TEST	
	gauge		180	200	220		
Density	g/cm <sup>3</sup>		0,926	0,926	0,926	BAREKS TEST	
Yield	m <sup>2</sup> /kg		24,00	21,60	19,63	BAREKS TEST	
CoF	ln / ln		≤ 0,3			ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	25	27	34	ASTM D882
	TD		± 6	20	24	27	
Elongation at Break	MD	mm	± 100	175	260	320	ASTM D882
	TD		± 100	385	390	430	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	22	22,5	23	BAREKS TEST
		mm	± 50	150	155	155	
Gloss	≥%		80	80	80	ASTM D2457	
Haze	≤%		16	16	16	ASTM D1003	
Clarity	≥%		90	90	90		
Transmittance	≥%		85	80	80		

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PROPERTIES							
Parameter	Unit		Value			Test Method	
Thickness	micron		60	65	70	BAREKS TEST	
	gauge		240	260	280		
Density	g/cm <sup>3</sup>		0,926	0,926	0,926	BAREKS TEST	
Yield	m <sup>2</sup> /kg		18,00	16,61	15,43	BAREKS TEST	
CoF	ln / ln		≤ 0,3			ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	38	39,2	40	ASTM D882
	TD		± 6	32	35	37	
Elongation at Break	MD	mm	± 100	350	370	380	ASTM D882
	TD		± 100	430	470	480	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	25	28	30,6	BAREKS TEST
		mm	± 50	160	160	170	
Gloss	≥%		80	80	80	ASTM D2457	
Haze	≤%		16	18	18	ASTM D1003	
Clarity	≥%		90	85	85		
Transmittance	≥%		80	75	75		

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PROPERTIES							
Parameter	Unit		Value			Test Method	
Thickness	micron		75	80	85	BAREKS TEST	
	gauge		300	320	340		
Density	g/cm <sup>3</sup>		0,926	0,926	0,926	BAREKS TEST	
Yield	m <sup>2</sup> /kg		14,40	13,50	12,70	BAREKS TEST	
CoF	ln / ln		≤ 0,3			ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	44	47	48	ASTM D882
	TD		± 6	40	44	45	
Elongation at Break	MD	mm	± 100	390	400	410	ASTM D882
	TD		± 100	490	500	510	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	31,5	32	32,1	BAREKS TEST
		mm	± 50	175	180	180	
Gloss	≥%		80	80	80	ASTM D2457	
Haze	≤%		18	18	18	ASTM D1003	
Clarity	≥%		85	85	85		
Transmittance	≥%		75	75	75		

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PROPERTIES							
Parameter	Unit		Value			Test Method	
Thickness	micron		90	95	100	BAREKS TEST	
	gauge		360	380	400		
Density	g/cm <sup>3</sup>		0,926	0,926	0,926	BAREKS TEST	
Yield	m <sup>2</sup> /kg		12,00	11,37	10,80	BAREKS TEST	
CoF	ln / ln		≤ 0,3			ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	51	53	64	ASTM D882
	TD		± 6	46	48	55,2	
Elongation at Break	MD	mm	± 100	420	440	470	ASTM D882
	TD		± 100	520	560	560	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	34	36	38	BAREKS TEST
		mm	± 50	180	185	190	
Gloss	≥%		80	80	80	ASTM D2457	
Haze	≤%		18	18	18	ASTM D1003	
Clarity	≥%		85	85	85		
Transmittance	≥%		75	75	75		

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PROPERTIES							
Parameter	Unit		Value			Test Method	
Thickness	micron		105	110	120	BAREKS TEST	
	gauge		420	440	480		
Density	g/cm <sup>3</sup>		0,926	0,926	0,926	BAREKS TEST	
Yield	m <sup>2</sup> /kg		10,28	9,82	9,00	BAREKS TEST	
CoF	ln / ln		≤ 0,3			ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	66	67	72	ASTM D882
	TD		± 6	57	58	64	
Elongation at Break	MD	mm	± 100	470	510	490	ASTM D882
	TD		± 100	570	580	580	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	38,5	38,5	41	BAREKS TEST
		mm	± 50	190	190	190	
Gloss	≥%		80	80	80	ASTM D2457	
Haze	≤%		18	18	18	ASTM D1003	
Clarity	≥%		85	85	85		
Transmittance	≥%		75	75	75		

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PROPERTIES							
Parameter	Unit		Value			Test Method	
Thickness	micron		130	140	150	BAREKS TEST	
	gauge		520	560	600		
Density	g/cm <sup>3</sup>		0,926	0,926	0,926	BAREKS TEST	
Yield	m <sup>2</sup> /kg		8,31	7,71	7,20	BAREKS TEST	
CoF	ln / ln		≤ 0,3			ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	80,2	83	87	ASTM D882
	TD		± 6	72	75	78	
Elongation at Break	MD	mm	± 100	510	520	530	ASTM D882
	TD		± 100	585	590	600	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	42,3	44	46	BAREKS TEST
		mm	± 50	200	190	195	
Gloss	≥%		80	80	80	ASTM D2457	
Haze	≤%		24	24	24	ASTM D1003	
Clarity	≥%		85	85	85		
Transmittance	≥%		75	75	75		

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