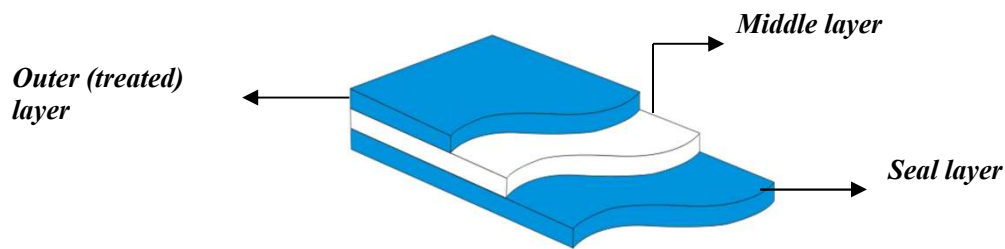


TECHNICAL SPECIFICATION

ML1161

CONSTRUCTION



FEATURES AND APPLICATIONS

- mLLDPE (metalosen) / LLDPE / LDPE blend.
- Suitable for PET, OPP, PVC, Metallize PET, Metalize OPP, Al, OPA or Paper lamination.
- Excellent sealing strength.
- Improved Hot-tack property.
- Improved stiffness.
- Improved dart drop and tear resistance.
- Especially suggested for doypack packaging.

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, ISO 14001 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	BAREKS TEST	
	gauge		80	100	120	140		
Density	g/cm ³		0,924	0,924	0,924	0,924	BAREKS TEST	
Yield	m ² /kg		54,11	43,29	36,08	30,92	BAREKS TEST	
CoF	ln / ln		≤ 0,3				ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	15,1	17,5	19,8	23	ASTM D882
	TD		± 6	10,3	14,6	15,2	16	
Elongation at Break	MD	mm	± 100	132	140	150	150	ASTM D882
	TD		± 100	260	290	300	300	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	10,6	12,5	13,5	17	BAREKS TEST
		mm	± 50	70	70	75	75	
Gloss	≥%		75	75	75	75	ASTM D2457	
Haze	≤%		16	16	16	16	ASTM D1003	
Clarity	≥%		90	90	90	90		
Transmittance	≥%		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		40	45	50	BAREKS TEST	
	gauge		160	180	200		
Density	g/cm ³		0,924	0,921	0,921	BAREKS TEST	
Yield	m ² /kg		27,06	24,13	21,72	BAREKS TEST	
CoF	ln / ln		≤ 0,3			ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	24	26,7	30	ASTM D882
	TD		± 6	17	21,9	22	
Elongation at Break	MD	mm	± 100	160	162	165	ASTM D882
	TD		± 100	340	350	400	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	21	23,8	26	BAREKS TEST
		mm	± 50	80	85	100	
Gloss	≥%		75	75	75	ASTM D2457	
Haze	≤%		16	16	16	ASTM D1003	
Clarity	≥%		90	90	90		
Transmittance	≥%		85	85	85		

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PROPERTIES							
Parameter	Unit		Value			Test Method	
Thickness	micron		55	60	65	BAREKS TEST	
	gauge		220	240	260		
Density	g/cm ³		0,921	0,921	0,921	BAREKS TEST	
Yield	m ² /kg		19,74	18,10	16,70	BAREKS TEST	
CoF	ln / ln		≤ 0,3			ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	32,8	35,2	40,1	ASTM D882
	TD		± 6	26	26,1	33,5	
Elongation at Break	MD	mm	± 100	170	190	200	ASTM D882
	TD		± 100	460	520	525	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	26,9	27,5	31	BAREKS TEST
		mm	± 50	110	120	122	
Gloss	≥%		75	75	75	ASTM D2457	
Haze	≤%		16	16	16	ASTM D1003	
Clarity	≥%		90	90	90		
Transmittance	≥%		85	85	85		

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PROPERTIES								
Parameter	Unit		Value				Test Method	
Thickness	micron		70	75	80	90	BAREKS TEST	
	gauge		280	300	320	360		
Density	g/cm ³		0,921	0,921	0,921	0,921	BAREKS TEST	
Yield	m ² /kg		15,51	14,48	13,57	12,06	BAREKS TEST	
CoF	ln / ln		≤ 0,3				ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	40,5	42,2	44,3	46,5	ASTM D882
	TD		± 6	35,2	39,4	39,4	41,1	
Elongation at Break	MD	mm	± 100	240	270	270	300	ASTM D882
	TD		± 100	530	550	550	560	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	31,5	32,9	33	34	BAREKS TEST
		mm	± 50	125	128	130	135	
Gloss	≥%		75	75	75	75	ASTM D2457	
Haze	≤%		16	16	16	18	ASTM D1003	
Clarity	≥%		90	90	90	90		
Transmittance	≥%		85	85	85	85		

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PROPERTIES								
Parameter	Unit		Value				Test Metod	
Thickness	micron		95	100	105	110	BAREKS TEST	
	gauge		380	400	420	440		
Density	g/cm ³		0,921	0,921	0,921	0,921	BAREKS TEST	
Yield	m ² /kg		11,43	10,86	10,34	9,87	BAREKS TEST	
CoF	ln / ln		≤ 0,3				ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	50,4	55,5	58	58,5	ASTM D882
	TD		± 6	42,8	45,2	47	48,3	
Elongation at Break	MD	mm	± 100	330	420	425	470	ASTM D882
	TD		± 100	565	570	575	580	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	37,8	40	41	41,4	BAREKS TEST
		mm	± 50	140	150	155	160	
Gloss	≥%		75	75	75	75	ASTM D2457	
Haze	≤%		18	20	20	23	ASTM D1003	
Clarity	≥%		90	90	90	90		
Transmittance	≥%		85	85	85	85		

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PROPERTIES							
Parameter	Unit		Value			Test Metod	
Thickness	micron		115	120	130	BAREKS TEST	
	gauge		460	480	520		
Density	g/cm ³		0,921	0,921	0,921	BAREKS TEST	
Yield	m ² /kg		9,44	9,05	8,35	BAREKS TEST	
CoF	ln / ln		≤ 0,3			ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	65,1	67,4	79,3	ASTM D882
	TD		± 6	55,5	57,5	67,3	
Elongation at Break	MD	mm	± 100	515	520	535	ASTM D882
	TD		± 100	585	590	595	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	41,6	44,7	44,8	BAREKS TEST
		mm	± 50	165	170	180	
Gloss	≥%		75	75	75	ASTM D2457	
Haze	≤%		23	23	26	ASTM D1003	
Clarity	≥%		90	90	90		
Transmittance	≥%		85	85	85		

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PROPERTIES						
Parameter	Unit		Value		Test Metod	
Thickness	micron		140	150	BAREKS TEST	
	gauge		560	600		
Density	g/cm ³		0,921	0,921	BAREKS TEST	
Yield	m ² /kg		7,76	7,24	BAREKS TEST	
CoF	ln / ln		≤ 0,3		ASTM D1894	
Tensile Strength	MD	N /25 mm	± 6	84	87	ASTM D882
	TD		± 6	69		
Elongation at Break	MD	mm	± 100	535	540	ASTM D882
	TD		± 100	595		
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	47	49,2	BAREKS TEST
		mm	± 50	190	235	
Gloss	≥%		75	75	ASTM D2457	
Haze	≤%		26	26	ASTM D1003	
Clarity	≥%		90	90		
Transmittance	≥%		85	85		

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