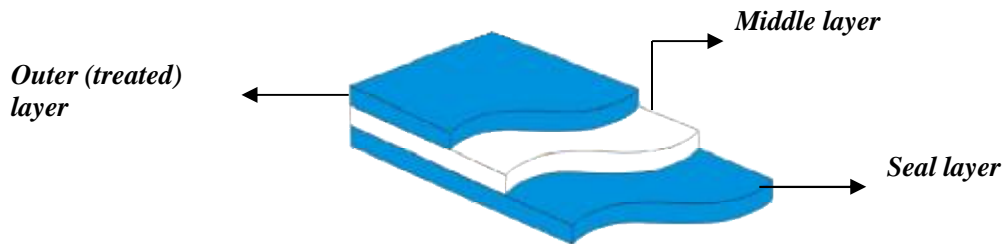


TECHNICAL SPECIFICATION

ML53SA**CONSTRUCTION****FEATURES AND APPLICATIONS**

- Suitable for PET, OPP, PVC, Metallized PET, Metallized OPP, Al, OPA or Paper lamination.
- Improved sealing strength.
- 5 °C lower sealing initiation temperature than LD53.
- Improved Hot-tack properties.
- Improved tear and puncture resistance.
- Suitable for high speed machines.
- Low COF values.

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 certified facilities and have been approved by the British Retail Consortium (BRC).

PRODUCT SAFETY

For more information about our product, please read our Material Safety Data Sheet (MSDS).

PROPERTIES							
Parameter	Unit		Value			Test Method	
Thickness	micron		30	35	40	BAREKS TEST	
	gauge		120	140	160		
Density	g/cm ³		0,924	0,924	0,924	BAREKS TEST	
Yield	m ² /kg		36,08	30,92	27,06	BAREKS TEST	
CoF	In / In		≤ 0,23			ASTM D1894	
	In / Metal		≤ 0,23				
Tensile Strength	MD	N /25 mm	± 6	19	21	22,4	ASTM D882
	TD		± 6	12	14,1	15	
Elongation at Break	MD	mm	± 100	140	150	150	ASTM D882
	TD		± 100	330	340	345	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	18	20	20,7	BAREKS TEST
		mm	± 50	130	135	135	
Gloss	≥%		80	80	80	ASTM D2457	
Haze	≤%		16	16	16	ASTM D1003	
Clarity	≥%		90	90	90		
Transmittance	≥%		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 ³		0,924	0,924	0,924	BAREKS TEST	
Yield	m ² /kg		24,05	21,65	19,68	BAREKS TEST	
CoF	In / In		≤ 0,23			ASTM D1894	
	In / Metal		≤ 0,23				
Tensile Strength	MD	N /25 mm	± 6	23	25	26,7	ASTM D882
	TD		± 6	18	20	22	
Elongation at Break	MD	mm	± 100	155	165	170	ASTM D882
	TD		± 100	350	380	390	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	21,6	22,2	22,5	BAREKS TEST
		mm	± 50	140	145	150	
Gloss	≥%		80	80	80	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		60	65	70	BAREKS TEST	
	gauge		240	260	280		
Density	g/cm ³		0,924	0,924	0,924	BAREKS TEST	
Yield	m ² /kg		18,04	16,65	15,46	BAREKS TEST	
CoF	In / In		≤ 0,23			ASTM D1894	
	In / Metal		≤ 0,23				
Tensile Strength	MD	N /25 mm	± 6	33,2	34,5	35,1	ASTM D882
	TD		± 6	25	27	28,1	
Elongation at Break	MD	mm	± 100	200	220	250	ASTM D882
	TD		± 100	430	440	470	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	25,5	28	29	BAREKS TEST
		mm	± 50	150	150	155	
Gloss	≥%		80	80	80	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		75	90	110	BAREKS TEST	
	gauge		300	360	440		
Density	g/cm ³		0,924	0,924	0,924	BAREKS TEST	
Yield	m ² /kg		14,43	12,03	9,84	BAREKS TEST	
CoF	In / In		≤ 0,23			ASTM D1894	
	In / Metal		≤ 0,23				
Tensile Strength	MD	N /25 mm	± 6	37	48	60	ASTM D882
	TD		± 6	30	42	56	
Elongation at Break	MD	mm	± 100	320	350	410	ASTM D882
	TD		± 100	480	500	520	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	30	35	43	BAREKS TEST
		mm	± 50	155	160	165	
Gloss	≥%		80	80	80	ASTM D2457	
Haze	≤%		16	18	20	ASTM D1003	
Clarity	≥%		90	90	90		
Transmittance	≥%		85	85	85		

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PROPERTIES						
Parameter	Unit		Value		Test Method	
Thickness	micron		130	150	BAREKS TEST	
	gauge		520	600		
Density	g/cm ³		0,924	0,924	BAREKS TEST	
Yield	m ² /kg		8,33	7,22	BAREKS TEST	
CoF	In / In		≤ 0,23		ASTM D1894	
	In / Metal		≤ 0,23			
Tensile Strength	MD	N /25 mm	± 6	68	85	ASTM D882
	TD		± 6	61	65	
Elongation at Break	MD	mm	± 100	470	550	ASTM D882
	TD		± 100	550	570	
Seal Strength / Elongation	3 bar 130°C 0,8 sn	N /25 mm	± 3	45	48	BAREKS TEST
		mm	± 50	170	170	
Gloss	≥%		80	80	ASTM D2457	
Haze	≤%		23	26	ASTM D1003	
Clarity	≥%		90	90		
Transmittance	≥%		85	85		

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