

**MACHINE FILM:** LLDPE cast stretch film for general applications. *To be used only on wrapping machines WITHOUT prestretch group.*

Characteristic	Method	Unit	Direction	12 µm	15 µm	17 µm	20 µm	23 µm	30 µm	35 µm	50 µm	Tolerances
Impact resistance	ASTM D1709 A	g	-	40	50	70	75	85	100	125	147	10%
Tensile strength at break	ASTM D882 B	MPa	Machine Direction	22	27	30	32	32	33	35	42	10%
			Transversal Direction	17	17	18	18	20	22	22	29	10%
Tensile strength at yield	ASTM D882 B	MPa	Machine Direction	6	6.5	6.5	6.5	6.5	7	7	8	10%
			Transversal Direction	4.5	5	5	5	5.5	6	6.5	7.5	10%
Elongation at break	ASTM D882 B	%	Machine Direction	400	420	430	460	480	550	600	730	10%
			Transversal Direction	500	550	570	600	650	670	680	780	10%
Tear Resistance	ASTM D1922	mN	Machine Direction	1600	1700	2100	2200	2500	2700	3000	4100	10%
			Transversal Direction	2300	2350	2712	3200	3220	3300	3300	4650	10%
Stretch	Hipac	%	-	60	70	90	110	145	170	180	220	5%
Cling	Hipac	g	-	135	135	135	130	130	125	120	115	10%

In case of coloured stretch film these values should be reduced by 10%.

In case of additives these values should be reduced by 5%.

In case of printed film these values should be reduced by 5%.

Coloured	Slippery	AUV 6/12 months	Antistatic	Net Roll	Cling Out/In/Both	Low Temperature	Printed	Double Edges
✔	✔	✔	✔	✔	✔	✔	✔	✔

HIPAC STRETCH FILM HAS BEEN  
DESIGNED TO BE 100% RECYCLABLE



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**HAND FILM:** LLDPE cast stretch film for manual use.

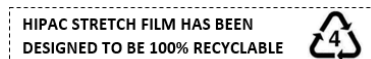
Characteristic	Method	Unit	Direction	12 µm	15 µm	16 µm	17 µm	18 µm	19 µm	20 µm	23 µm	30 µm	35 µm	Tolerances
Impact resistance	ASTM D1709 A	g	-	49	50	54	58	60	65	65	72	85	91	10%
Tensile strength at break	ASTM D882 B	MPa	MD	26	27	29	29	29	30	32	27	32	33	10%
			TD	16	17	18	18	17	17	17	20	22	22	10%
Tensile strength at yield	ASTM D882 B	MPa	MD	5.5	6	6	6	6	6	6	6	7	7	10%
			TD	4.5	5	5	5	5	5	5	5	6	6.5	10%
Elongation at break	ASTM D882 B	%	MD	330	360	370	380	390	400	410	450	500	570	10%
			TD	480	500	510	510	520	520	540	550	600	610	10%
Tear Resistance	ASTM D1922	mN	MD	1000	1100	1120	1200	1270	1380	1450	1560	1860	2100	10%
			TD	1950	2050	2110	2150	2190	2225	2300	2450	2650	2850	10%
Stretch	Hipac	%	-	50	70	80	80	90	95	100	115	145	160	5%
Cling	Hipac	g	-	135	135	135	135	130	130	130	130	125	120	10%

In case of coloured stretch film these values should be reduced by 10%.

In case of additives these values should be reduced by 5%.

In case of printed film these values should be reduced by 5%.

Coloured	Slippery	AUV 6/12 months	Antistatic	Net Roll	Cling Out/In/Both	Low Temperature	Printed	Double Edges
✓	✓	✓	✓	✓	✓	✓	✓	✓



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