



Bio-degradable specs for all Cast Pre-Stretch, Hand and Machine film

- Applicable to all Machine and Hand films with Biodegradable Additive (Part no's ending with -BIO & Any other Bio films)
- Abiotic Degradation is Polymer Degradation by Oxidation (Not from Living Organisms)
- Pro Degradant Content Presence confirms the presence of additive in the film

Thermal Stability:	ASTM D5510	No Significant Degradation Observed
Abiotic Degradation:	ASTM D5510 ISO 10640	Significant Degradation Observed
Pro Degradant Content Confirmation:		Pro degradant Present

All values are representative of typical film performance and are not to be construed as manufacturing and/or sales specifications.

As per ASTM D5510, Polymer Degradation is evaluated by carbonyl products of polymer oxidation which is recorded as Carbonyl Optical Density.

- Carbonyl OD not exceeding 0.0010 represents no degradation
- Carbonyl OD exceeding 0.0010 represents polymer degradation

Thermal Stability		
Accelerated Aging Time	Exposure Type	Carbonyl OD
0 hrs	Thermal	0.0000
50 hrs	Thermal	0.0006
145 hrs	Thermal	0.0006
312 hrs	Thermal	0.0007
482 hrs	Thermal	0.0006
606 hrs	Thermal	0.0006

Abiotic Degradation		
Accelerated Aging Time	Exposure Type	Carbonyl OD
0 hrs	UV	0.0000
48 hrs	UV	0.0011
118 hrs	Thermal	0.0285
286 hrs	Thermal	0.0740

- Product shows 0.0006 Carbonyl OD under storage conditions representing Thermal Stability
- Product shows 0.0740 Carbonyl OD in 286 hours representing Significant Abiotic Degradation
- 1000 Hours of accelerated aging would be approx.6 months in real time. This is just an estimate for understanding purposes.

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Cast Machine Film Technical Data Sheet

- Quiet Unwinding & easy release
- Stretches 200-250%
- High clarity for product identification
- Available in various colors (Dark & Tinted) in certain gauges – Black, White, Blue, Green, Red, Orange, Yellow, Purple, Brown, Gray (Custom Colors are available up on request)
- Product Categories – CMF, CMF Metrics, ZMF, CMU (UVI), ZMU (UVI), CMV (VCI), ZMV (VCI), ZMA (Anti-Stat), CMF-Bio films, Various Printed films
- **UVI/VCI/Anti-Stat/Bio-de films – Additive may affect the performance to some extent**

Thickness	ASTM D-4649	Gauge	60 ga	65 ga	70 ga	75 ga	80 ga	90 ga	100 ga	110 ga	115 ga	120 ga	121-135 ga	136-150 ga	151-175 ga	176-220 ga	221-250 ga
Tensile Ultimate MD	ASTM D-882	PSI	6400	6400	6400	6400	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800	6800
Tensile Ultimate TD	ASTM D-882	PSI	4100	4100	4100	4100	4300	4300	4300	4300	4300	4300	4300	4300	4300	4300	4300
Tensile Yield MD	ASTM D-882	PSI	1350	1350	1350	1350	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
Tensile Yield MD	ASTM D-882	PSI	1250	1250	1250	1250	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
Elongation MD	ASTM D-882	%	480	480	510	510	510	540	540	540	585	585	620	620	630	635	650
Elongation TD	ASTM D-882	%	710	710	720	720	720	730	730	730	740	740	750	750	750	765	775
Elmendorf Tear MD	ASTM D-1922	g/mil	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370
Elmendorf Tear TD	ASTM D-1922	g/mil	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Puncture Force	WRAP TITE	LBS	6.6	7.3	8.0	8.7	9.4	9.7	10.1	10.4	10.6	11	11.6	12.3	12.8	13.2	13.6
Cling@200%	ASTM D-5458	g/in	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150

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Cast Hand Film Technical Data Sheet



- Quiet Cast Film
- Stiff & Strong
- Good puncture resistance
- Lower cost Metric options available
- Available in various colors (Dark & Tinted) in certain gauges – Black, Blue, Green, Red, Orange, Yellow, Purple, White (Custom Colors are available up on request)
- Product Categories – CHF, CHF Metrics, ZHF, CHU(UVI), ZHU(UVI), CHV(VCI), ZHV(VCI), ZHA (Anti-Stat) CHF-Bio films, Various Printed Hand films
- ***UVI/VCI/Anti-Stat/Bio-de films – Additive may affect the performance to some extent***

Thickness	ASTM D-4649	Gauge	60 ga	65 ga	70 ga	75 ga	80 ga	90 ga	100 ga	115 ga	120 ga	135 ga	150 ga
Tensile Ultimate MD	ASTM D-882	PSI	6400	6400	6450	6450	6500	6500	6600	6600	6600	6600	6600
Tensile Ultimate TD	ASTM D-882	PSI	4000	4000	4050	4050	4100	4100	4150	4150	4150	4150	4150
Tensile Yield MD	ASTM D-882	PSI	1250	1250	1275	1275	1300	1300	1350	1350	1350	1350	1350
Tensile Yield TD	ASTM D-882	PSI	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Elongation MD	ASTM D-882	%	390	390	360	360	330	330	310	310	310	310	310
Elongation TD	ASTM D-882	%	610	610	570	570	540	540	520	520	520	520	520
Elmendorf Tear MD	ASTM D-1922	g/mil	350	350	340	340	330	330	310	310	310	310	310
Elmendorf Tear TD	ASTM D-1922	g/mil	600	600	570	570	540	540	520	520	520	520	520
Cling@100%	ASTM D-5458	g/in	180	180	180	180	180	180	180	180	180	180	180

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