TUFflex Performance Machine Film

17.8 Micron / 70 Gauge / 0.70 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 17.8 Micron / 70 Gauge / 0.70 Mil

Color Clear
Film Width (inches) 20"
Length (feet) 6000'
Net Weight / Roll (lb, nominal) 33.6 lb
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	< 2.5 %
Gloss	ASTM D2457	76%
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3500 psi
Elongation at Break (MD)	ASTM D882	500%
Elongation at Break (TD)	ASTM D882	675%
Elemdorf Tear Strength (MD)	ASTM D1922	200 g
Elemdorf Tear Strength (TD)	ASTM D1922	375 g



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TUFflex Performance Machine Film

19 Micron / 75 Gauge / 0.75 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 19 Micron / 75 Gauge / 0.75 Mil

Color Clear
Film Width (inches) 20"
Length (feet) 5000'
Net Weight / Roll (lb, nominal) 30 lb
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	< 2.5 %
Gloss	ASTM D2457	76%
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Elongation at Break (MD)	ASTM D882	505%
Elongation at Break (TD)	ASTM D882	685%
Elemdorf Tear Strength (MD)	ASTM D1922	210 g
Elemdorf Tear Strength (TD)	ASTM D1922	385 g



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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.80 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.80 Mil

Color Clear
Film Width (inches) 20"
Length (feet) 5500'
Net Weight / Roll (lb, nominal) 35.2 lb
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	< 2.5 %
Gloss	ASTM D2457	76%
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Elongation at Break (MD)	ASTM D882	525%
Elongation at Break (TD)	ASTM D882	695%
Elemdorf Tear Strength (MD)	ASTM D1922	250 g
Elemdorf Tear Strength (TD)	ASTM D1922	400 g



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TUFflex Performance Machine Film

15.2 Micron / 60 Gauge / 0.60 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 15.2 Micron / 60 Gauge / 0.60 Mil

Color Clear
Film Width (inches) 20"
Length (feet) 8000'
Net Weight / Roll (lb, nominal) 38.4 lb
Roll Diameter (O.D., inches) 9.5"

Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	100 g
Tensile Strength at Break (MD)	ASTM D882	4700 psi
Tensile Strength at Break (TD)	ASTM D882	3400 psi
Tensile Strength at 200% (MD)	ASTM D882	1400 psi
Tensile Strength at 200% (TD)	ASTM D882	1250 psi
Elongation at Break (MD)	ASTM D882	480%
Elongation at Break (TD)	ASTM D882	650%
Elemdorf Tear Strength (MD)	ASTM D1922	180 g
Elemdorf Tear Strength (TD)	ASTM D1922	360 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

15.2 Micron / 60 Gauge / 0.60 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 15.2 Micron / 60 Gauge / 0.60 Mil

Color Clear
Film Width (inches) 30"
Length (feet) 8000'
Net Weight / Roll (lb, nominal) 57.6 lb
Roll Diameter (O.D., inches) 9.5"

Core I.D. 9.5

TESTS	METHODS	VALUES
Haze	ASTM D1003	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	100 g
Tensile Strength at Break (MD)	ASTM D882	4700 psi
Tensile Strength at Break (TD)	ASTM D882	3400 psi
Tensile Strength at 200% (MD)	ASTM D882	1400 psi
Tensile Strength at 200% (TD)	ASTM D882	1250 psi
Elongation at Break (MD)	ASTM D882	480%
Elongation at Break (TD)	ASTM D882	650%
Elemdorf Tear Strength (MD)	ASTM D1922	180 g
Elemdorf Tear Strength (TD)	ASTM D1922	360 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

17.8 Micron / 70 Gauge / 0.70 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES

Manufacturing Process Cast

17.8 Micron / 70 Gauge / 0.70 Mil Thickness (nominal)

Color Clear Film Width (inches) 20" Length (feet) 6500' Net Weight / Roll (lb, nominal) 36.4 lb 9.5" Roll Diameter (O.D., inches) 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	120 g
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Tensile Strength at 200% (MD)	ASTM D882	1500 psi
Tensile Strength at 200% (TD)	ASTM D882	1310 psi
Elongation at Break (MD)	ASTM D882	490%
Elongation at Break (TD)	ASTM D882	675%
Elemdorf Tear Strength (MD)	ASTM D1922	190 g
Elemdorf Tear Strength (TD)	ASTM D1922	375 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

17.8 Micron / 70 Gauge / 0.70 Mil

Not intended as limiting specifications.

CHARACILINISTICS	CHARACTERISTICS VA	ALUES
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Manufacturing Process Cast

17.8 Micron / 70 Gauge / 0.70 Mil Thickness (nominal)

Color Clear Film Width (inches) 30" Length (feet) 6500' Net Weight / Roll (lb, nominal) 54.6 lb 9.5" Roll Diameter (O.D., inches) 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	120 g
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Tensile Strength at 200% (MD)	ASTM D882	1500 psi
Tensile Strength at 200% (TD)	ASTM D882	1310 psi
Elongation at Break (MD)	ASTM D882	490%
Elongation at Break (TD)	ASTM D882	675%
Elemdorf Tear Strength (MD)	ASTM D1922	190 g
Elemdorf Tear Strength (TD)	ASTM D1922	375 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

19.1 Micron / 75 Gauge / 0.75 Mil

Not intended as limiting specifications.

CHARACILINISTICS	CHARACTERISTICS VA	ALUES
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Manufacturing Process Cast

Thickness (nominal) 19.1 Micron / 75 Gauge / 0.75 Mil

Color Clear
Film Width (inches) 20"
Length (feet) 6000'
Net Weight / Roll (lb, nominal) 36 lb
Roll Diameter (O.D., inches) 9.5"
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	130 g
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Tensile Strength at 200% (MD)	ASTM D882	1500 psi
Tensile Strength at 200% (TD)	ASTM D882	1310 psi
Elongation at Break (MD)	ASTM D882	505%
Elongation at Break (TD)	ASTM D882	685%
Elemdorf Tear Strength (MD)	ASTM D1922	210 g
Elemdorf Tear Strength (TD)	ASTM D1922	385 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.8 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES
CHARACTERISTICS	VALUES

Manufacturing Process Cast

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.8 Mil

Color Clear
Film Width (inches) 20"
Length (feet) 5000'
Net Weight / Roll (lb, nominal) 32 lb
Roll Diameter (O.D., inches) 9.5"
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	155 g
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Tensile Strength at 200% (MD)	ASTM D882	1500 psi
Tensile Strength at 200% (TD)	ASTM D882	1310 psi
Elongation at Break (MD)	ASTM D882	525%
Elongation at Break (TD)	ASTM D882	695%
Elemdorf Tear Strength (MD)	ASTM D1922	250 g
Elemdorf Tear Strength (TD)	ASTM D1922	400 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.8 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.8 Mil

Color Clear Film Width (inches) 20" Length (feet) 6000' Net Weight / Roll (lb, nominal) 38.4 lb 9.5" Roll Diameter (O.D., inches) 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	155 g
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Tensile Strength at 200% (MD)	ASTM D882	1500 psi
Tensile Strength at 200% (TD)	ASTM D882	1310 psi
Elongation at Break (MD)	ASTM D882	525%
Elongation at Break (TD)	ASTM D882	695%
Elemdorf Tear Strength (MD)	ASTM D1922	250 g
Elemdorf Tear Strength (TD)	ASTM D1922	400 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.8 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES
CHARACTERISTICS	VALUES

Manufacturing Process Cast

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.8 Mil

Color Clear
Film Width (inches) 30"
Length (feet) 6000'
Net Weight / Roll (lb, nominal) 57.6 lb
Roll Diameter (O.D., inches) 9.5"
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	155 g
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Tensile Strength at 200% (MD)	ASTM D882	1500 psi
Tensile Strength at 200% (TD)	ASTM D882	1310 psi
Elongation at Break (MD)	ASTM D882	525%
Elongation at Break (TD)	ASTM D882	695%
Elemdorf Tear Strength (MD)	ASTM D1922	250 g
Elemdorf Tear Strength (TD)	ASTM D1922	400 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

22.9 Micron / 90 Gauge / 0.9 Mil

Not intended as limiting specifications.

CHARACILINISTICS	CHARACTERISTICS VA	ALUES
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Manufacturing Process Cast

Thickness (nominal) 22.9 Micron / 90 Gauge / 0.9 Mil

Color Clear
Film Width (inches) 20"
Length (feet) 5250'
Net Weight / Roll (lb, nominal) 37.8 lb
Roll Diameter (O.D., inches) 9.5"
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	170 g
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Tensile Strength at 200% (MD)	ASTM D882	1500 psi
Tensile Strength at 200% (TD)	ASTM D882	1310 psi
Elongation at Break (MD)	ASTM D882	555%
Elongation at Break (TD)	ASTM D882	715%
Elemdorf Tear Strength (MD)	ASTM D1922	265 g
Elemdorf Tear Strength (TD)	ASTM D1922	440 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

22.9 Micron / 90 Gauge / 0.9 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES

Manufacturing Process Cast

Thickness (nominal) 22.9 Micron / 90 Gauge / 0.9 Mil

Color Clear
Film Width (inches) 30"
Length (feet) 5250'
Net Weight / Roll (lb, nominal) 37.8 lb
Roll Diameter (O.D., inches) 9.5"
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	170 g
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Tensile Strength at 200% (MD)	ASTM D882	1500 psi
Tensile Strength at 200% (TD)	ASTM D882	1310 psi
Elongation at Break (MD)	ASTM D882	555%
Elongation at Break (TD)	ASTM D882	715%
Elemdorf Tear Strength (MD)	ASTM D1922	265 g
Elemdorf Tear Strength (TD)	ASTM D1922	440 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

30.5 Micron / 120 Gauge / 1.2 Mil

Not intended as limiting specifications.

CHARACTERISTICS \	/A	LU	JΕ	S
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Manufacturing Process Cast

30.5 Micron / 120 Gauge / 1.2 Mil Thickness (nominal)

Color Clear Film Width (inches) 20" Length (feet) 4000' Net Weight / Roll (lb, nominal) 38.4 lb 9.5" Roll Diameter (O.D., inches) 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	3%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	255 g
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Tensile Strength at 200% (MD)	ASTM D882	1500 psi
Tensile Strength at 200% (TD)	ASTM D882	1310 psi
Elongation at Break (MD)	ASTM D882	595%
Elongation at Break (TD)	ASTM D882	760%
Elemdorf Tear Strength (MD)	ASTM D1922	300 g
Elemdorf Tear Strength (TD)	ASTM D1922	510 g
Cling	ASTM D5458	90 g



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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.80 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.80 Mil

Color Clear
Film Width (inches) 20"
Length (feet) 5000'
Net Weight / Roll (lb, nominal) 32 lb
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	< 2.5%
Gloss	ASTM D2457	76%
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3560 psi
Elongation at Break (MD)	ASTM D882	525%
Elongation at Break (TD)	ASTM D882	695%
Elemdorf Tear Strength (MD)	ASTM D1922	250 g
Elemdorf Tear Strength (TD)	ASTM D1922	400 g



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TUFflex Performance Machine Film

15.2 Micron / 60 Gauge / 0.60 mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 15.2 Micron / 60 Gauge / 0.60 mil

Film Width (inches) 20"
Length (feet) 7500'
Net Weight / Roll (lb, nominal) 36 lb
Roll Diameter (O.D., inches) 9.1"
Core I.D. 3"

TESTS	METHODS	VALUES

Ultimate Tensile MD (PSI) **ASTM D 882** 6700 psi Ultimate Tensile TD (PSI) **ASTM D 882** 4000 psi **ASTM D 882** 480% Elongation MD (%) Elongation TD (%) **ASTM D 882** 600% Tear Resistance MD (grams) **ASTM D 1922** 300 g/mil Tear Resistance TD (grams) **ASTM D 1922** 600 g/mil Puncture Resistance (in-lbs.) **ASTM D 4649** 18 in-lb Ultimate Prestretch (%) Mfg. / Highlight 340% Mfg. method 150 g/in Cling (in to out, grams)



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TUFflex Performance Machine Film

17.8 Micron / 70 Gauge / 0.70 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 17.8 Micron / 70 Gauge / 0.70 Mil

Film Width (inches) 20"
Length (feet) 6000'
Net Weight / Roll (lb, nominal) 33.6 lb
Roll Diameter (O.D., inches) 8.9"
Core I.D. 3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (PSI)	ASTM D 882	6700 psi
Ultimate Tensile TD (PSI)	ASTM D 882	4000 psi
Elongation MD (%)	ASTM D 882	500%
Elongation TD (%)	ASTM D 882	620%
Tear Resistance MD (grams)	ASTM D 1922	300 g/mil
Tear Resistance TD (grams)	ASTM D 1922	600 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	21 in-lb
Ultimate Prestretch (%)	Mfa. / Hiahliaht	350%

Mfg. method

150 g/in



Cling (in to out, grams)

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TUFflex Performance Machine Film

17.8 Micron / 70 Gauge / 0.70 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 17.8 Micron / 70 Gauge / 0.70 Mil

Film Width (inches) 30"
Length (feet) 6000'
Net Weight / Roll (lb, nominal) 50.4 lb
Roll Diameter (O.D., inches) 8.9"
Core I.D. 3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (PSI)	ASTM D 882	6700 psi
Ultimate Tensile TD (PSI)	ASTM D 882	4000 psi
Elongation MD (%)	ASTM D 882	500%
Elongation TD (%)	ASTM D 882	620%
Tear Resistance MD (grams)	ASTM D 1922	300 g/mil
Tear Resistance TD (grams)	ASTM D 1922	600 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	21 in-lb

Mfg. / Highlight

Mfg. method

350%

150 g/in



Ultimate Prestretch (%)

Cling (in to out, grams)

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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.80 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Blown

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.80 Mil

Film Width (inches) 20"
Length (feet) 6000'
Net Weight / Roll (lb, nominal) 38.4 lb
Roll Diameter (O.D., inches) 9.4"
Core I.D. 3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (PSI)	ASTM D 882	6900 psi
Ultimate Tensile TD (PSI)	ASTM D 882	4900 psi
Elongation MD (%)	ASTM D 882	550%
Elongation TD (%)	ASTM D 882	750%
Tear Resistance MD (grams)	ASTM D 1922	150 g/mil
Tear Resistance TD (grams)	ASTM D 1922	750 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	20 in-lb
Ultimate Prestretch (%)	Mfa. / Highlight	460%

Mfg. method

150 g/in



Cling (in to out, grams)

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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.80 Mil

Not intended as limiting specifications.

CHARACTERISTICS \	/A	LU	JΕ	S
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Manufacturing Process Cast

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.80 Mil

Film Width (inches) 20"
Length (feet) 5000'
Net Weight / Roll (lb, nominal) 32 lb
Roll Diameter (O.D., inches) 8.7"
Core I.D. 3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (PSI)	ASTM D 882	6900 psi
Ultimate Tensile TD (PSI)	ASTM D 882	4000 psi
Elongation MD (%)	ASTM D 882	480%
Elongation TD (%)	ASTM D 882	620%
Tear Resistance MD (grams)	ASTM D 1922	330 g/mil
Tear Resistance TD (grams)	ASTM D 1922	540 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	23 in-lb
Ultimate Prestretch (%)	Mfg. / Highlight	370%
Cling (in to out, grams)	Mfg. method	150 g/in



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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.80 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.80 Mil

Film Width (inches) 20"
Length (feet) 6000'
Net Weight / Roll (lb, nominal) 38.4 lb
Roll Diameter (O.D., inches) 9.4"
Core I.D. 3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (PSI)	ASTM D 882	6900 psi

Ultimate Tensile TD (PSI) **ASTM D 882** 4000 psi **ASTM D 882** 480% Elongation MD (%) Elongation TD (%) **ASTM D 882** 620% Tear Resistance MD (grams) **ASTM D 1922** 330 g/mil Tear Resistance TD (grams) **ASTM D 1922** 540 g/mil Puncture Resistance (in-lbs.) **ASTM D 4649** 23 in-lb Ultimate Prestretch (%) Mfg. / Highlight 370% Mfg. method 150 g/in Cling (in to out, grams)



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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.80 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.80 Mil

Film Width (inches) 30"
Length (feet) 6000'
Net Weight / Roll (lb, nominal) 57.6 lb
Roll Diameter (O.D., inches) 9.4"
Core I.D. 3"

1E515	METHODS	VALUES
Ultimate Tensile MD (PSI)	ASTM D 882	6900 psi
Ultimate Tensile TD (PSI)	ASTM D 882	4000 psi
Elongation MD (%)	ASTM D 882	480%
Elongation TD (%)	ASTM D 882	620%
Tear Resistance MD (grams)	ASTM D 1922	330 g/mil
Tear Resistance TD (grams)	ASTM D 1922	540 g/mil

METHODO

VALUE

Tear Resistance MD (grams)

Tear Resistance TD (grams)

ASTM D 882

ASTM D 1922

ASTM D 1922

S40 g/m

Puncture Resistance (in-lbs.)

Ultimate Prestretch (%)

Cling (in to out, grams)

ASTM D 1922

S40 g/m

ASTM D 4649

23 in-lb

Mfg. / Highlight

370%

Mfg. method

150 g/in



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TUFflex Performance Machine Film

25.4 Micron / 100 Gauge / 1.00 mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Blown

Thickness (nominal) 25.4 Micron / 100 Gauge / 1.00 mil

Film Width (inches) 20"
Length (feet) 4400'
Net Weight / Roll (lb, nominal) 35.2 lb
Roll Diameter (O.D., inches) 9.8"
Core I.D. 3"

METHODS	VALUES
ASTM D 882	6800 psi
ASTM D 882	4900 psi
ASTM D 882	600%
ASTM D 882	810%
ASTM D 1922	150 g/mil
ASTM D 1922	750 g/mil
ASTM D 4649	25 in-lbs
Mfg./Highlight	420%
Mfg. method	150 g/in
	ASTM D 882 ASTM D 882 ASTM D 882 ASTM D 882 ASTM D 1922 ASTM D 1922 ASTM D 4649 Mfg./Highlight



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TUFflex Performance Machine Film

29.2 Micron / 115 Gauge / 1.15 mil

Not intended as limiting specifications.

CHARACTERISTICS V	'ALUES
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Manufacturing Process Cast

Thickness (nominal) 29.2 Micron / 115 Gauge / 1.15 mil

Film Width (inches) 20"
Length (feet) 3500'
Net Weight / Roll (lb, nominal) 32.2 lb
Roll Diameter (O.D., inches) 9"
Core I.D. 3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (psi)	ASTM D 882	6900 psi
Ultimate Tensile TD (psi)	ASTM D 882	4000 psi
Elongation MD (%)	ASTM D 882	540%
Elongation TD (%)	ASTM D 882	650%
Tear Resistance MD (grams)	ASTM D 1922	330 g/mil
Tear Resistance TD (grams)	ASTM D 1922	530 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	34.6 in-lbs
Ultimate Prestretch (%)	Mfg./Highlight	350%

Mfg. method

150 g/in



Cling (in to out, grams)

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TUFflex Performance Machine Film

27.9 Micron / 110 Gauge / 1.10 mil

Not intended as limiting specifications.

CHARACTERISTICS	V.	A	LU	JE:	5
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Manufacturing Process Cast

Thickness (nominal) 27.9 Micron / 110 Gauge / 1.10 mil

Film Width (inches) 20"
Length (feet) 4400'
Net Weight / Roll (lb, nominal) 38.7 lb
Roll Diameter (O.D., inches) 8.8"
Core I.D. 3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (psi)	ASTM D 882	6900 psi

Ultimate Tensile MD (psi) Ultimate Tensile TD (psi) **ASTM D 882** 4000 psi **ASTM D 882** 520% Elongation MD (%) Elongation TD (%) **ASTM D 882** 600% Tear Resistance MD (grams) **ASTM D 1922** 330 g/mil Tear Resistance TD (grams) **ASTM D 1922** 31.7 g/mil Puncture Resistance (in-lbs.) **ASTM D 4649** 34.6 in-lbs Ultimate Prestretch (%) Mfg./Highlight 400% Cling (in to out, grams) Mfg. method 150 g/in



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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.80 mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.80 mil

Film Width (inches) 60"
Length (feet) 5000'
Net Weight / Roll (lb, nominal) 193.6 lb
Roll Diameter (O.D., inches) 9"
Core I.D. 3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (psi)	ASTM D 882	6900 psi
Ultimate Tensile TD (psi)	ASTM D 882	4000 psi
Elongation MD (%)	ASTM D 882	480%
Elongation TD (%)	ASTM D 882	620%
Tear Resistance MD (grams)	ASTM D 1922	330 g/mil
Tear Resistance TD (grams)	ASTM D 1922	540 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	23 in-lbs
Ultimate Prestretch (%)	Mfg./Highlight	380%
Cling (in to out, grams)	Mfg. method	150 g/in



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TUFflex Performance Machine Film

20.3 Micron / 80 Gauge / 0.80 mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 20.3 Micron / 80 Gauge / 0.80 mil

Film Width (inches) 20"
Length (feet) 6000'
Net Weight / Roll (lb, nominal) 38.4 lb
Roll Diameter (O.D., inches) 9"
Core I.D. 3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (psi)	ASTM D 882	6900 psi
Ultimate Tensile TD (psi)	ASTM D 882	4000 psi
Elongation MD (%)	ASTM D 882	480%
Elongation TD (%)	ASTM D 882	620%
Tear Resistance MD (grams)	ASTM D 1922	330 g/mil
Tear Resistance TD (grams)	ASTM D 1922	540 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	23 in-lbs
Ultimate Prestretch (%)	Mfg./Highlight	380%

Mfg. method

150 g/in



Cling (in to out, grams)

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TUFflex Performance Machine Film

12.7 Micron / 50 Gauge / 0.50 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 12.7 Micron / 50 Gauge / 0.50 Mil

Color Clear
Film Width (inches) 20"
Length (feet) 9000'
Net Weight / Roll (lb, nominal) 36 lb
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	<2.5%
Gloss	ASTM D2457	76%
Tensile Strength at Break (MD)	ASTM D882	4600 psi
Tensile Strength at Break (TD)	ASTM D882	3250 psi
Elongation at Break (MD)	ASTM D882	450%
Elongation at Break (TD)	ASTM D882	600%
Elemdorf Tear Strength (MD)	ASTM D1922	170 g
Elemdorf Tear Strength (TD)	ASTM D1922	350 g
Cling	ASTM D5458	90g



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TUFflex Performance Machine Film

29.2 Micron / 115 Gauge / 1.15 Mil

Not intended as limiting specifications.

CHARACTERISTICS VALUES

Manufacturing Process Cast

Thickness (nominal) 29.2 Micron / 115 Gauge / 1.15 Mil

Film Width (inches) 20"
Length (feet) 3500'
Net Weight / Roll (lb, nominal) 32.2 lb
Core I.D. 3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	<3%
Gloss	ASTM D2457	76%
Tensile Strength at Break (MD)	ASTM D882	4800 psi
Tensile Strength at Break (TD)	ASTM D882	3500 psi
Elongation at Break (MD)	ASTM D882	595%
Elongation at Break (TD)	ASTM D882	760%
Elemdorf Tear Strength (MD)	ASTM D1922	300 g
Elemdorf Tear Strength (TD)	ASTM D1922	500 g
Cling	ASTM D5458	90g



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