TUFflex Performance Handwrap 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)	18"
Length (feet)	1500'
Net Weight / Roll (lb, nominal)	34.4 lb
Core I.D.	3"

TESTS	METHODS	VALUES
Tensile Strength at Break (MD)	ASTM D882	5800 psi
Tensile Strength at Break (TD)	ASTM D882	3200 psi
Elongation at Break (MD)	ASTM D882	380%
Elongation at Break (TD)	ASTM D882	600%
Elemdorf Tear Strength (MD)	ASTM D1922	140 g
Elemdorf Tear Strength (TD)	ASTM D1922	580 g
Puncture, lbs	Internal	11.5
Dart Unoact F50, g	ASTM D1709A	100



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TUFflex Performance Handwrap 20.3 Micron / 80 Gauge / 0.80 Mil

Not intended as limiting specifications.

Roll Diameter (O.D., inches)

Core I.D.

CHARACTERISTICSVALUESManufacturing ProcessCastThickness (nominal)20.3 Micron / 80 Gauge / 0.80 MilFilm Width (inches)18"Length (feet)1500'Net Weight / Roll (lb, nominal)8.65 lb

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	330%
Elongation TD (%)	ASTM D 882	540%
Tear Resistance MD (grams)	ASTM D 1922	330 g/ml
Tear Resistance TD (grams)	ASTM D 1922	540 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	23 in/lb
Ultimate Prestretch (%)	Mfg. / Highlight	N/A
Cling (in to out, grams)	Mfg. method	150 g/in

5.5" 3"



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TUFflex Premium Plus Handwrap 11.9 Micron / 47 Gauge / 0.47 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

Manufacturing Process	Blown
Thickness (nominal)	11.9 Micron / 47 Gauge / 0.47 Mil
Film Width (inches)	18
Length (feet)	1476'
Net Weight / Roll (lbs. – nominal)	20.0
Roll Diameter (O.D., inches)	4.4
Core I.D.	3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (psi)	ASTM D 882	6100 psi
Ultimate Tensile TD (psi)	ASTM D 882	4600 psi
Elongation MD (%)	ASTM D 882	310%
Elongation TD (%)	ASTM D 882	540%
Tear Resistance MD (grams)	ASTM D 1922	230 g/mil
Tear Resistance TD (grams)	ASTM D 1922	650 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	25.5 in-lbs
Ultimate Prestretch (%)	Mfg./Highlight	N/A
Cling (in to out, grams)	Mfg. method	130 g/in



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TUFflex Premium Plus Handwrap 11.9 Micron / 47 Gauge / 0.47 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES Cast

Clear

1500'

20.32 lb 3"

18"

11.9 Micron / 47 Gauge / 0.47 Mil

Manufacturing Process Thickness (nominal) Color Film Width (inches) Length (feet) Net Weight / Roll (lb, nominal) Core I.D.

TESTS	METHODS	VALUES
Tensile Strength at Break (MD)	ASTM D882	6000 psi
Tensile Strength at Break (TD)	ASTM D882	2900 psi
Elongation at Break (MD)	ASTM D882	180%
Elongation at Break (TD)	ASTM D882	470%
Elemdorf Tear Strength (MD)	ASTM D1922	40 g
Elemdorf Tear Strength (TD)	ASTM D1922	380 g
Puncture, lbs	Internal	9
Dart Impact F50, g	ASTM D1709A	70



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TUFflex Pre-stretched Handwrap 7.4 Micron / 29 Gauge / 0.29 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

Manufacturing Process Thickness (nominal) Film Width (inches) Length (feet) Net Weight / Roll (lb, nominal) Roll Diameter (O.D., inches) Core I.D. Blown 7.4 Micron / 29 Gauge / 0.29 Mil 15.5" 2000' 3.6 lb 6.3" 3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (PSI)	ASTM D 882	16000 psi
Ultimate Tensile TD (PSI)	ASTM D 882	3300 psi
Elongation MD (%)	ASTM D 882	150%
Elongation TD (%)	ASTM D 882	730%
Tear Resistance MD (grams)	ASTM D 1922	140 g/mil
Tear Resistance TD (grams)	ASTM D 1922	980 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	12.1 in-lb
Ultimate Prestretch (%)	Mfg. / Highlight	N/A
Cling (in to out, grams)	Mfg. method	150 g/in



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TUFflex Pre-stretched Handwrap 7.4 Micron / 29 Gauge / 0.29 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

Manufacturing Process	Blown
Thickness (nominal)	7.4 Micron / 29 Gauge / 0.29 Mil
Color	Clear
Film Width (inches)	15.5"
Length (feet)	2000'
Net Weight / Roll (lb, nominal)	3.7 lb
Core I.D.	3"

TESTS	METHODS	VALUES
Haze	ASTM D1003	< 2.5%
Gloss	ASTM D2457	89%
Tensile Strength at Break (MD)	ASTM D882	4200 psi
Tensile Strength at Break (TD)	ASTM D882	3100 psi
Elongation at Break (MD)	ASTM D882	330%
Elongation at Break (TD)	ASTM D882	500%
Elemdorf Tear Strength (MD)	ASTM D1922	200 g
Elemdorf Tear Strength (TD)	ASTM D1922	490 g
Cling	ASTM D5458	130 g



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TUFflex Elite Handwrap 7 Micron / 28 Gauge / 0.28 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

Manufacturing Process	Cast
Thickness (nominal)	7 Micron / 28 Gauge / 0.28 Mil
Color	Clear
Film Width (inches)	14.5"
Length (feet)	2000'
Net Weight / Roll (lb, nominal)	3.25 lb
Core I.D.	3"

METHODS	VALUES
ASTM D1003	< 3 %
ASTM D2457	65%
ASTM D882	9350 psi
ASTM D882	2100 psi
ASTM D882	100%
ASTM D882	650%
ASTM D1922	400 g
ASTM D1922	800 g
ASTM D5458	175 g
	ASTM D1003 ASTM D2457 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D1922 ASTM D1922



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TUFflex Performance Machine Film 20.3 Micron / 80 Gauge / 0.8 Mil

Not intended as limiting specifications.

VALUES	
Cast 20.3 Micron / 80 Gauge / 0.8 Mil Clear 20" 5000' 32 lb 9.5" 3"	
METHODS	VALUES
ASTM D1003 ASTM D2457 ASTM D1709 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D1922 ASTM D1922	2.5% 76% 155 g 4800 psi 3560 psi 1500 psi 1310 psi 525% 695% 250 g 400 g 90 g
	Cast 20.3 Micron / 80 Gauge / 0 Clear 20" 5000' 32 lb 9.5" 3" METHODS ASTM D1003 ASTM D2457 ASTM D1709 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882



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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 Thickness (nominal) Film Width (inches) Length (feet) Net Weight / Roll (lb, nominal) Roll Diameter (O.D., inches) Core I.D. Cast 20.3 Micron / 80 Gauge / 0.80 Mil 20" 5000' 32 lb 8.7" 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 Premium Plus Machine Film 16 Micron / 63 Gauge / 0.63 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

on / 63 Gauge / 0.63 Mil

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	480%
Elongation TD (%)	ASTM D 882	590%
Tear Resistance MD (grams)	ASTM D 1922	300 g/mil
Tear Resistance TD (grams) A	STM D 1922	600 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	19.6 in-lb
Ultimate Prestretch (%)	Mfg. / Highlight	350%
Cling (in to out, grams)	Mfg. method	150 g/in



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TUFflex Premium Plus Machine Film 16 Micron / 63 Gauge / 0.63 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES	
Manufacturing Process Thickness (nominal) Color Film Width (inches) Length (feet) Net Weight / Roll (lb, nominal) Roll Diameter (O.D., inches) Core I.D.	Cast 16 Micron / 63 Gauge / 0.63 Mil Clear 20" 7,250' 36.54 lb 9.5" 3"	
TESTS	METHODS	VALUES
Haze Gloss Dart Impact Strength Tensile Strength at Break (MD) Tensile Strength at Break (TD) Tensile Strength at 200% (MD) Tensile Strength at 200% (TD) Elongation at Break (MD) Elongation at Break (TD) Elemdorf Tear Strength (MD) Elemdorf Tear Strength (TD)	ASTM D1003 ASTM D2457 ASTM D1709 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D1922 ASTM D1922	2% 75% 265 g 5550 psi 4550 psi 2070 psi 1370 psi 510% 700% 175 g 475 g
Cling	ASTM D5458	120 g



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TUFflex Ultra Machine Film 11.9 Micron / 47 Gauge / 0.47 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

Manufacturing ProcessCastThickness (nominal)11.9 Micron / 47 Gauge / 0.47 MilFilm Width (inches)19.7"Length (feet)9000'Net Weight / Roll (lb, nominal)33.3 lbRoll Diameter (O.D., inches)8.6"Core I.D.3"

METHODS	VALUES
ASTM D 882	4500 psi
ASTM D 882	4350 psi
ASTM D 882	370%
ASTM D 882	575%
ASTM D 1922	650 g/mil
ASTM D 1922	970 g/mil
ASTM D 4649	11.4 in-lbs
Mfg./Highlight	
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 Ultra Machine Film 13 Micron / 51 Gauge / 0.51 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES	
Manufacturing Process Thickness (nominal) Color Film Width (inches) Length (feet) Net Weight / Roll (lbs. – nominal) Roll Diameter (O.D., inches) Core I.D.	Cast 13 Micron / 51 Gauge / 0.51 Mil Clear 20" 9000' 36.72 lb 9.5" 3"	
TESTS	METHODS	VALUES
Haze Gloss Dart Impact Strength Tensile Strength at Break (MD) Tensile Strength at Break (TD) Tensile Strength at 200% (MD)	ASTM D1003 ASTM D2457 ASTM D1709 ASTM D882 ASTM D882 ASTM D882	3% 69% 210 g 5500 psi 4575 psi 1960 psi
Tensile Strength at 200% (MD) Tensile Strength at 200% (TD) Elongation at Break (MD) Elongation at Break (TD) Elemdorf Tear Strength (MD) Elemdorf Tear Strength (TD) Cling	ASTM D882 ASTM D882 ASTM D882 ASTM D1922 ASTM D1922 ASTM D5458	1425 psi 510% 655% 150 g 395 g 100 g



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TUFflex Ultra Machine Film 13.7 Micron / 54 Gauge / 0.54 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

Manufacturing Process	Cast
Thickness (nominal)	13.7 Micron / 54 Gauge / 0.54 Mil
Film Width (inches)	19.7"
Length (feet)	8000'
Net Weight / Roll (lb, nominal)	34 lb
Roll Diameter (O.D., inches)	8.7"
Core I.D.	3"

TESTS	METHODS	VALUES
Ultimate Tensile MD (psi)	ASTM D 882	11900 psi
Ultimate Tensile TD (psi)	ASTM D 882	8500 psi
Elongation MD (%)	ASTM D 882	610%
Elongation TD (%)	ASTM D 882	690%
Tear Resistance MD (grams)	ASTM D 1922	650 g/mil
Tear Resistance TD (grams)	ASTM D 1922	970 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	16.9 in-lbs
Ultimate Prestretch (%)	Mfg./Highlight	
Cling (in to out, grams)	Mfg. method	150 g/in



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Elite Machine Film 12 Micron / 47 Gauge / 0.47 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES	
Manufacturing Process Thickness (nominal) Color Film Width (inches) Length (feet) Net Weight / Roll (lb, nominal) Roll Diameter (O.D.) Core I.D.	Cast 12 Micron / 47 Gauge / 0.47 Mil Clear 20" 9750' 36.66 lb 9.12" 3.055"	
TESTS	METHODS	VALUES
Haze Gloss Dart Impact Strength Tensile Strength at Break (MD) Tensile Strength at Break (TD) Tensile Strength at 200% (MD) Tensile Strength at 200% (TD) Elongation at Break (MD) Elongation at Break (MD) Elemdorf Tear Strength (MD) Elemdorf Tear Strength (TD) Cling	ASTM D1003 ASTM D2457 ASTM D1709 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D1922 ASTM D1922 ASTM D5458	< 3% 69% 210 5500 psi 4575 psi 1960 1425 510% 655% 180 g 450 g 100 g



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9/19 PKTFEliteMTDS

