

V00141

TUFFlex Premium Plus Handwrap

10.2 Micron / 40 Gauge / 0.40 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES
Manufacturing Process	Cast
Thickness (nominal)	10.2 Micron / 40 Gauge / 0.40 Mil
Color	Clear
Film Width (inches)	16"
Length (feet)	2000'
Net Weight / Roll (lb, nominal)	20.4 lb
Core I.D.	3"

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	140%
Elongation at Break (TD)	ASTM D882	390%
Elmendorf Tear Strength (MD)	ASTM D1922	33 g
Elmendorf Tear Strength (TD)	ASTM D1922	316 g
Puncture, lbs	Internal	7
Dart Impact F50, g	ASTM D1709A	60

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03/19
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V00209

TUFFlex Premium Plus Handwrap

11.9 Micron / 47 Gauge / 0.47 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES	
Manufacturing Process	Cast	
Thickness (nominal)	11.9 Micron / 47 Gauge / 0.47 Mil	
Color	Clear	
Film Width (inches)	16"	
Length (feet)	1500'	
Net Weight / Roll (lb, nominal)	4.51 lb	
Roll Diameter (O.D., inches)	6"	
Core I.D.	3"	
TESTS	METHODS	VALUES
Haze	ASTM D1003	1.5%
Gloss	ASTM D2457	82%
Tensile Strength at Break (MD)	ASTM D882	7600 psi
Tensile Strength at Break (TD)	ASTM D882	4000 psi
Elongation at Break (MD)	ASTM D882	240%
Elongation at Break (TD)	ASTM D882	780%
Elmendorf Tear Strength (MD)	ASTM D1922	80 g
Elmendorf Tear Strength (TD)	ASTM D1922	325 g
Cling	ASTM D5458	75 g

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V00210

TUFFlex Premium Plus Handwrap

11.9 Micron / 47 Gauge / 0.47 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES
Manufacturing Process	Cast
Thickness (nominal)	11.9 Micron / 47 Gauge / 0.47 Mil
Color	Clear
Film Width (inches)	18"
Length (feet)	1500'
Net Weight / Roll (lb, nominal)	20.32 lb
Core I.D.	3"

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%
Elmendorf Tear Strength (MD)	ASTM D1922	40 g
Elmendorf Tear Strength (TD)	ASTM D1922	380 g
Puncture, lbs	Internal	9
Dart Impact F50, g	ASTM D1709A	70

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V00263

TUFFlex Premium Plus Handwrap

14.5 Micron / 57 Gauge / 0.57 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES	
Manufacturing Process	Blown	
Thickness (nominal)	14.5 Micron / 57 Gauge / 0.57 Mil	
Film Width (inches)	18"	
Length (feet)	1500'	
Net Weight / Roll (lb, nominal)	6.15 lb	
Roll Diameter (O.D., inches)	4.9"	
Core I.D.	3"	

TESTS	METHODS	VALUES
Ultimate Tensile MD (psi)	ASTM D 882	7000 psi
Ultimate Tensile TD (psi)	ASTM D 882	4900 psi
Elongation MD (%)	ASTM D 882	450%
Elongation TD (%)	ASTM D 882	600%
Tear Resistance MD (grams)	ASTM D 1922	160 g/mil
Tear Resistance TD (grams)	ASTM D 1922	750 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	14.3 in-lbs
Ultimate Prestretch (%)	Mfg. / Highlight	N/A
Cling (in to out, grams)	Mfg. method 1	150 g/in

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V02028

TUFFlex Premium Plus Handwrap

11.9 Micron / 47 Gauge / 0.47 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES	
Manufacturing Process	Cast	
Thickness (nominal)	11.9 Micron / 47 Gauge / 0.47 Mil	
Color	Clear	
Film Width (inches)	16"	
Length (feet)	2000'	
Net Weight / Roll (lb, nominal)	6 lb	
Core I.D.	3"	

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%
Elmendorf Tear Strength (MD)	ASTM D1922	40 g
Elmendorf Tear Strength (TD)	ASTM D1922	380 g
Puncture, lbs	Internal	9
Dart Impact F50, g	ASTM D1709A	70

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V03311

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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