

V00153

TUFFlex Premium 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
Film Width (inches)	20"
Length (feet)	9000'
Net Weight / Roll (lbs. – nominal)	36 lb
Roll Diameter (O.D., inches)	9.5"
Core I.D.	3"

TESTS

METHODS

VALUES

Haze	ASTM D1003	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	225 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	450%
Elongation at Break (TD)	ASTM D882	660%
Elmendorf Tear Strength (MD)	ASTM D1922	140 g
Elmendorf Tear Strength (TD)	ASTM D1922	375 g
Cling	ASTM D5458	95 g

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03/19
TFStetchTDSUS

V00154

TUFFlex Premium 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)	30"	
Length (feet)	9000'	
Net Weight / Roll (lbs. – nominal)	54 lb	
Roll Diameter (O.D., inches)	9.5"	
Core I.D.	3"	
TESTS	METHODS	VALUES
Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	225 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	450%
Elongation at Break (TD)	ASTM D882	660%
Elmendorf Tear Strength (MD)	ASTM D1922	140 g
Elmendorf Tear Strength (TD)	ASTM D1922	375 g
Cling	ASTM D5458	95 g

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TFStetchTDSUS

V00155

TUFFlex Premium 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 (lbs. – nominal)	38.4 lb	
Roll Diameter (O.D., inches)	9.5"	
Core I.D.	3"	

TESTS	METHODS	VALUES
Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	235 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	475%
Elongation at Break (TD)	ASTM D882	670%
Elmendorf Tear Strength (MD)	ASTM D1922	160 g
Elmendorf Tear Strength (TD)	ASTM D1922	400 g
Cling	ASTM D5458	95 g

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TFStetchTDSUS

V00156

TUFFlex Premium 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 (lbs. – nominal)	57.6 lb
Roll Diameter (O.D., inches)	9.5"
Core I.D.	3"

TESTS

METHODS

VALUES

Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	235 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	475%
Elongation at Break (TD)	ASTM D882	670%
Elmendorf Tear Strength (MD)	ASTM D1922	160 g
Elmendorf Tear Strength (TD)	ASTM D1922	400 g
Cling	ASTM D5458	95 g

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V00157

TUFFlex Premium Machine Film

16 Micron / 63 Gauge / 0.63 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

Manufacturing Process	Cast
Thickness (nominal)	16 Micron / 63 Gauge / 0.63 Mil
Color	Clear
Film Width (inches)	20"
Length (feet)	7250'
Net Weight / Roll (lbs. – nominal)	36.54 lb
Roll Diameter (O.D., inches)	9.5"
Core I.D.	3"

TESTS

METHODS

VALUES

Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	240 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	485%
Elongation at Break (TD)	ASTM D882	675%
Elmendorf Tear Strength (MD)	ASTM D1922	165 g
Elmendorf Tear Strength (TD)	ASTM D1922	410 g
Cling	ASTM D5458	95 g

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V00158

TUFFlex Premium Machine Film

16 Micron / 63 Gauge / 0.63 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

Manufacturing Process	Cast
Thickness (nominal)	16 Micron / 63 Gauge / 0.63 Mil
Color	Clear
Film Width (inches)	30"
Length (feet)	7250'
Net Weight / Roll (lbs. – nominal)	54.8 lb
Roll Diameter (O.D., inches)	9.5"
Core I.D.	3"

TESTS

METHODS

VALUES

Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	240 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	485%
Elongation at Break (TD)	ASTM D882	675%
Elmendorf Tear Strength (MD)	ASTM D1922	165 g
Elmendorf Tear Strength (TD)	ASTM D1922	410 g
Cling	ASTM D5458	95 g

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V00159

TUFFlex Premium Machine Film

16.5 Micron / 65 Gauge / 0.65 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

Manufacturing Process	Cast
Thickness (nominal)	16.5 Micron / 65 Gauge / 0.65 Mil
Color	Clear
Film Width (inches)	20"
Length (feet)	6500'
Net Weight / Roll (lbs. – nominal)	33.8 lb
Roll Diameter (O.D., inches)	9.5"
Core I.D.	3"

TESTS

METHODS

VALUES

Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	240 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	485%
Elongation at Break (TD)	ASTM D882	675%
Elmendorf Tear Strength (MD)	ASTM D1922	165 g
Elmendorf Tear Strength (TD)	ASTM D1922	410 g
Cling	ASTM D5458	95 g

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V00160

TUFFlex Premium 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)	6500'
Net Weight / Roll (lbs. – nominal)	36.4 lb
Roll Diameter (O.D., inches)	9.5"
Core I.D.	3"

TESTS

METHODS

VALUES

Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	245 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	500%
Elongation at Break (TD)	ASTM D882	680%
Elmendorf Tear Strength (MD)	ASTM D1922	175 g
Elmendorf Tear Strength (TD)	ASTM D1922	425 g
Cling	ASTM D5458	95 g

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V00161

TUFFlex Premium 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)	30"
Length (feet)	6500'
Net Weight / Roll (lbs. – nominal)	54.6 lb
Roll Diameter (O.D., inches)	9.5"
Core I.D.	3"

TESTS

METHODS

VALUES

Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	245 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	500%
Elongation at Break (TD)	ASTM D882	680%
Elmendorf Tear Strength (MD)	ASTM D1922	175 g
Elmendorf Tear Strength (TD)	ASTM D1922	425 g
Cling	ASTM D5458	95 g

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V00162

TUFFlex Premium 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)	6000'	
Net Weight / Roll (lbs. – nominal)	38.4 lb	
Roll Diameter (O.D., inches)	9.5"	
Core I.D.	3"	

TESTS	METHODS	VALUES
Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	255 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	530%
Elongation at Break (TD)	ASTM D882	700%
Elmendorf Tear Strength (MD)	ASTM D1922	190 g
Elmendorf Tear Strength (TD)	ASTM D1922	455 g
Cling	ASTM D5458	95 g

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TFStetchTDSUS

V00163

TUFFlex Premium 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)	30"
Length (feet)	6000'
Net Weight / Roll (lbs. – nominal)	57.6 lb
Roll Diameter (O.D., inches)	9.5"
Core I.D.	3"

TESTS

METHODS

VALUES

Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	255 g
Tensile Strength at Break (MD)	ASTM D882	5000 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	1860 psi
Tensile Strength at 200% (TD)	ASTM D882	1300 psi
Elongation at Break (MD)	ASTM D882	530%
Elongation at Break (TD)	ASTM D882	700%
Elmendorf Tear Strength (MD)	ASTM D1922	190 g
Elmendorf Tear Strength (TD)	ASTM D1922	455 g
Cling	ASTM D5458	95 g

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V00164

TUFFlex Premium Machine Film

25.4 Micron / 100 Gauge / 1.0 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES	
Manufacturing Process	Cast	
Thickness (nominal)	25.4 Micron / 100 Gauge / 1.0 Mil	
Color	Clear	
Film Width (inches)	20"	
Length (feet)	4750'	
Net Weight / Roll (lbs. – nominal)	38 lb	
Roll Diameter (O.D., inches)	9.5"	
Core I.D.	3"	
TESTS	METHODS	VALUES
Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	290 g
Tensile Strength at Break (MD)	ASTM D882	5750 psi
Tensile Strength at Break (TD)	ASTM D882	4080 psi
Tensile Strength at 200% (MD)	ASTM D882	2100 psi
Tensile Strength at 200% (TD)	ASTM D882	1400 psi
Elongation at Break (MD)	ASTM D882	575%
Elongation at Break (TD)	ASTM D882	750%
Elmendorf Tear Strength (MD)	ASTM D1922	275 g
Elmendorf Tear Strength (TD)	ASTM D1922	550 g
Cling	ASTM D5458	95 g

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TFStetchTDSUS

V00165

TUFFlex Premium Machine Film

25.4 Micron / 100 Gauge / 1.0 Mil

Not intended as limiting specifications.

CHARACTERISTICS

VALUES

Manufacturing Process	Cast
Thickness (nominal)	25.4 Micron / 100 Gauge / 1.0 Mil
Color	Clear
Film Width (inches)	30"
Length (feet)	4750'
Net Weight / Roll (lbs. – nominal)	57 lb
Roll Diameter (O.D., inches)	9.5"
Core I.D.	3"

TESTS

METHODS

VALUES

Haze	ASTM D2457	2%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	290 g
Tensile Strength at Break (MD)	ASTM D882	5750 psi
Tensile Strength at Break (TD)	ASTM D882	4800 psi
Tensile Strength at 200% (MD)	ASTM D882	2100 psi
Tensile Strength at 200% (TD)	ASTM D882	1400 psi
Elongation at Break (MD)	ASTM D882	575%
Elongation at Break (TD)	ASTM D882	750%
Elmendorf Tear Strength (MD)	ASTM D1922	275 g
Elmendorf Tear Strength (TD)	ASTM D1922	550 g
Cling	ASTM D5458	95 g

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V00166

TUFFlex Premium 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
Color	Clear
Film Width (inches)	20"
Length (feet)	4000'
Net Weight / Roll (lbs. – nominal)	36.8 lb
Roll Diameter (O.D., inches)	9.5"
Core I.D.	3"

TESTS

METHODS

VALUES

Haze	ASTM D2457	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	310 g
Tensile Strength at Break (MD)	ASTM D882	6100 psi
Tensile Strength at Break (TD)	ASTM D882	5200 psi
Tensile Strength at 200% (MD)	ASTM D882	2200 psi
Tensile Strength at 200% (TD)	ASTM D882	1500 psi
Elongation at Break (MD)	ASTM D882	650%
Elongation at Break (TD)	ASTM D882	800%
Elmendorf Tear Strength (MD)	ASTM D1922	325 g
Elmendorf Tear Strength (TD)	ASTM D1922	625 g
Cling	ASTM D5458	95 g

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V00216

TUFFlex Premium Machine Film

17.8 Micron / 70 Gauge / 0.70 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES	
Manufacturing Process	Cast	
Feature	Heat Treated Pallet	
Thickness (nominal)	17.8 Micron / 70 Gauge / 0.70 Mil	
Color	Clear	
Film Width (inches)	20"	
Length (feet)	6500'	
Net Weight / Roll (lbs. – nominal)	36.4 lb	
Roll Diameter (O.D., inches)	9.5"	
Core I.D.	3"	
TESTS	METHODS	VALUES
Haze	ASTM D2457	2.5%
Gloss	ASTM D2457	76%
Dart Impact Strength	ASTM D1709	155 g
Tensile Strength at Break (MD)	ASTM D882	5600 psi
Tensile Strength at Break (TD)	ASTM D882	
Tensile Strength at 200% (MD)	ASTM D882	
Tensile Strength at 200% (TD)	ASTM D882	
Elongation at Break (MD)	ASTM D882	490%
Elongation at Break (TD)	ASTM D882	
Elmendorf Tear Strength (MD)	ASTM D1922	160 g
Elmendorf Tear Strength (TD)	ASTM D1922	580 g
Cling	ASTM D5458	220 g

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V02773

TUFFlex Premium 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 (lbs. – nominal)	38.4	
Roll Diameter (O.D., inches)	9.1	
Core I.D.	3"	

TESTS	METHODS	VALUES
Ultimate Tensile MD (psi)	ASTM D 882	4700 psi
Ultimate Tensile TD (psi)	ASTM D 882	3100 psi
Elongation MD (%)	ASTM D 882	530%
Elongation TD (%)	ASTM D 882	650%
Tear Resistance MD (grams)	ASTM D 1922	270 g/mil
Tear Resistance TD (grams)	ASTM D 1922	670 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	33 in-lbs
Ultimate Prestretch (%)	Mfg. / Highlight	
Cling (in to out, grams)	Mfg. method	150 g/in

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V02774

TUFFlex Premium 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 (lbs. – nominal)	33.6
Roll Diameter (O.D., inches)	8.6
Core I.D.	3"

TESTS

METHODS

VALUES

Ultimate Tensile MD (psi)	ASTM D 882	4700 psi
Ultimate Tensile TD (psi)	ASTM D 882	3100 psi
Elongation MD (%)	ASTM D 882	510%
Elongation TD (%)	ASTM D 882	630%
Tear Resistance MD (grams)	ASTM D 1922	270 g/mil
Tear Resistance TD (grams)	ASTM D 1922	670 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	23.3 in-lbs
Ultimate Prestretch (%)	Mfg. / Highlight	
Cling (in to out, grams)	Mfg. method	150 g/in

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V04514

TUFFlex Premium Machine Film

16 Micron / 63 Gauge / 0.63 Mil

Not intended as limiting specifications.

CHARACTERISTICS	VALUES	
Manufacturing Process	Cast	
Thickness (nominal)	16 Micron / 63 Gauge / 0.63 Mil	
Film Width (inches)	20"	
Length (feet)	7250'	
Net Weight / Roll (lbs. – nominal)	36.5	
Roll Diameter (O.D., inches)	8.9	
Core I.D.	3"	

TESTS	METHODS	VALUES
Ultimate Tensile MD (psi)	ASTM D 882	4800 psi
Ultimate Tensile TD (psi)	ASTM D 882	3100 psi
Elongation MD (%)	ASTM D 882	490%
Elongation TD (%)	ASTM D 882	610%
Tear Resistance MD (grams)	ASTM D 1922	280 g/mil
Tear Resistance TD (grams)	ASTM D 1922	690 g/mil
Puncture Resistance (in-lbs.)	ASTM D 4649	20.2 in-lbs
Ultimate Prestretch (%)	Mfg. / Highlight	
Cling (in to out, grams)	Mfg. method	150 g/in

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