FlexPak Product Matrix

2023





Flexible Packaging Overlaminates

48 Gauge Ultra Clear PET Spec# 78792	48 Gauge Gloss Selfwound PET Spec# 78918
48 Gauge Ultra Clear polyester film treated one side for ink adhesion. Specifically designed for print surface on laminations	48 Gauge clear polyester selfwound overlmainte with permanent acrylic adhesive. Not designed for printing.
Single Ply	Single Ply
.47 mils	.98 mils
Print Treated One Side - Flexo UV and Water Base	NONE
Excellent	Excellent
Excellent	Excellent
Good	Good
Not Tested	Not Tested
Limited	Limited
N/A	N/A
3.7 grams/m2 / day	3.7 grams/m2 / day
Fair	Fair
9.1 cc / 100 sq in / day	9.1 cc / 100 sq in / day
N/A	N/A
N/A	N/A
0.35 (Kinetic)	<.30 (Kinetic)
N/A	N/A
Can be reverse printed and laminated to flexible packaging structures to add dimensional stability or used as an ultra clear press applied overlam	Selfwound PET with adhesive designed to withstand packaging process. Press applied like standard selfwound overlam
21 CFR 177.1630	CFR 177.1630 for facestock. CFR 175.105 for adhesive
Yes	Yes
Yes	Yes
Yes	Yes
Film is specifically designed to be a top layer on a flexible packaging lamination. May be printed or used as true laminate. Must be wet-laminated on press.	Flexible Packaging overlaminate for protecting inks in applications such as food, cosmetics, nutraceutical and pet food
	48 Gauge Ultra Clear polyester film treated one side for ink adhesion. Specifically designed for print surface on laminations Single Ply .47 mils Print Treated One Side - Flexo UV and Water Base Excellent Excellent Good Not Tested Limited N/A 3.7 grams/m2 / day Fair 9.1 cc / 100 sq in / day N/A N/A N/A N/A N/A N/A N/A N/

Flexible Packaging Components

48g Matte Selfwound PET Spec #79861	White Single-Ply Snack Web 170 Spec# 78806
48g matte clear selfwound polyester with permanent acrylic adhesive. Not designed for printing	1.7 mil white opaque, coextruded, biaxially oriented polypropylene film Sealable one side. Treated one side
Single Ply	Single layer
.92 mils	1.7 mils
NONE	Treated one side - requires corona treat prior to printing. Flexo - Water Base and Solvent.
Excellent	Excellent
Excellent	Excellent
Excellent	Good
Not Tested	Not Tested
Limited	Limited
N/A	Good
3.7 grams / 100 sq in / day	.27 grams/100 sq. in./day
Fair	Fair
9.1 cc / 100 sq in / day	100-120 cc./100 sq.in/day
N/A	N/A
N/A	Good
.16 Kinetic	.35 Kinetic/Print Side
N/A	Not Tested
N/A	200°F
N/A	Seal to Seal: 400 (g/in) @ 230°F/ 20 PSI/0.5 sec.
N/A	Poor
N/A	Not Tested
Matte Flexible packaging overlaminate for protecting inks in applications such as food, cosmetics, nutraceuticals and pet food/treats	Stand alone it is designed for horizontal filling machines. As a sealant film in lamination it can be vertically filled. Excellent opacity and low temperature sealing.
CFR 177.1630 for facestock, CFR 175.105 for adhesive	FDA regulation 21 CFR 177.1520
Yes	Yes
Yes	No
Yes	Not recommended
Flexible Packaging overlaminate for protecting inks in applications such as food, cosmetics, nutraceutical and pet food	Horizontal packaging of snacks, baked goods and ice cream novelties. Inner sealing web of laminations for vertical packaging.

	White Multi-Ply Snack Web 260 SB Spec# 79122	White Multi-Ply Snack Web 260 HB Spec# 79123
Structure		
Description	PET face laminated to white PE film	PET face laminated to white EVOH/m LLDPE film
Construction	48 ga. PET/adh/2 Mil White LLDPE	48 ga. PET/adh/2 Mil White EVOH/mLLDPE film
Total Construction Caliper	2.6 mils	2.6 mils
Printability / Ink Recommendations (Contact your ink supplier for best recommendation)	Flexible Packaging Film Inks - Contact Ink Supplier	Flexible Packaging Film Inks - Contact Ink Supplier
Exterior Layer Performance Properties		
Dimension Stability	Excellent	Excellent
Flex Crack Resistance	Good	Good
Stiffness/Flexibility	Average	Average
Tear Resistance (grams-force)	Not Tested	Not Tested
Barrier Layer Performance Properties		
Chemical Resistance	Average	Average
Light	Good	Good
Moisture Vapor Transmission Rate	0.45 grams/100 sq. in./day	0.31 grams/100 sq. in./day
Odor	Average	Average
Oxygen Transmission Rate	9.0 cc./100 sq. in./day	.05 cc./100 sq. in./day
Sealant Layer Performance Properties		
Caulk & Flow	Good	Good
Hot Tack	Good	Good
Coefficient of Friction	0.25 (Kinetic, seal to seal)	0.25 (Kinetic, seal to seal)
Puncture Resistance	Not Tested	Not Tested
Seal Initiation Temperature	300°F	300°F
Seal Strength	300°F/20 PSI/1.0 sec.	300°F/ 20 PSI/ 1.0 sec.
Seal through Contamination	Good	Good
Mullen Burst Strength	Not Tested	Not Tested
Material Strengths	Good Opacity and OTR barrier properties (without saran), good MVTR, and hermetic seals for extended shelf life.	Good Opacity with EVOH provides excellent OTR barrier properties, good MVTR and hermetic seals for extended shelf life
Packaging Applications		
Compliance	21 CFR 177.1520 and/or 21 CFR 177.1350, 21 CFR 177.1330	21 CFR 177.1520 and/or 21 CFR 177.1350, 21 CFR 177.1330
Dry Ingredients	Yes	Yes
Powdered Ingredients	Yes	Yes
Liquids	Not recommended	Yes
End-Use Applications	Opaque Packaging: Nuts and other oxygen sensitive salted snacks. Some liquids	Opaque Packaging: Spices, snacks and novelties requiring extra barrier. Hard to hold contents snacks and nuts

Clear Multi-Ply Snack Web 260 HB Spec# 79125	White & Silver/Metallized Multi-Ply Snack Web 260 HB Spec# 79355 - White Spec# 79354 - Silver
PET face laminated to clear EVOH/m LLDPE film	PET face laminated to Metallized PET film with extrusion seal
49 Ga. PET/2m Clear EVOH/mLLDPE	48 ga. PET/10#(W)LDPE/48 ga. Metallized PET/12#Metallocene
2.6 mils	2.6 mils
Flexible Packaging Film Inks - Contact Ink Supplier	Flexible Packaging Film Inks - Contact Ink Supplier
Excellent	Excellent
Good	Good
Average	Average
Not Tested	Not Tested
Average	Average
Poor	Poor
0.41 grams/100 sq. in./day	0.02 grams/100 sq. in./day
Average	Average
0.05 cc./100 sq. in./day	0.04 cc./100 sq. in./day
Good	Good
Good	Good
0.25 (Kinetic, seal to seal)	0.25 (Kinetic, seal to seal)
Not Tested	Not Tested
300°F	300°F
300°F/20 PSI/1.0 sec.	2500 (g/in) @ 350°F/ 20 PSI/ 0.5 sec.
Good	Good
Not Tested	Not Tested
Clarity, EVOH provides excellent OTR barrier properties, good MVTR and hermetic seals for extended shelf life	Topcoated face with good OTR barrier properties (without Saran®), good MVTR, and hermetic seals for extended shelf life. White outside/ silver inside
21 CFR 177.1520 and/or 21 CFR 177.1350, 21 CFR 177.1330	21 CFR 177.1520, 21 CFR 178.3860, 21 CFR 176.170
Yes	Yes
Yes	Yes
Yes	Not recommended
Spices, snacks and novelties requiring clear packaging and extra barrier. Hard to hold contents snacks and nuts	Dry snacks and powders

	Metallized Coffee Web 200 HB Spec# 79426	Clear Multi-Ply SUP 360 SB Spec # 79934
Structure		
Description	Metallized PET face laminated to LLDPE film	Print treated PET laminated to Clear EVOH sealant
Construction	48 ga. metallized PET/Adh/1.5 Mil LLDPE film	48g Clear PET / 3M Clear EVOH/mLLDPE
Total Construction Caliper	2.0 mils	3.6 mils
Printability / Ink Recommendations (Contact your ink supplier for best recommendation)	Flexible Packaging Film Inks - Contact Ink Supplier	Print treated - Flexible Packaging Film Inks - Contact Ink Supplier
Exterior Layer Performance Properties		
Dimension Stability	Excellent	Excellent
Flex Crack Resistance	Good	Good
Stiffness/Flexibility	Average	Excellent
Tear Resistance (grams-force)	Not Tested	61 MD / 60 CD
Barrier Layer Performance Properties		
Chemical Resistance	Average	Average
Light	Poor	Poor
Moisture Vapor Transmission Rate	0.1 grams/100 sq. in./day	.35 grams/100 sq in / day
Odor	Average	Average
Oxygen Transmission Rate	0.1 cc./100 sq. in./day	.07 cc/ 100 sq in / day
Sealant Layer Performance Properties		
Caulk & Flow	Good	Good
Hot Tack	Good	Good
Coefficient of Friction	0.2 (Kinetic, seal to seal)	.215 Kinetic (seal to seal)
Puncture Resistance	Not Tested	Good
Seal Initiation Temperature	300°F	290 F
Seal Strength		Destruct
Seal through Contamination	Good	Good
Mullen Burst Strength	Not Tested	Not Tested
Material Strengths	Topcoated face provides excellent printability and excellent UV, OTR and MVTR barrier properties and hermetic seals for extended shelf life.	Clarity, EVOH provides excelent OTR barrier, good hermetic seals for extended shelf life, high barrier and heavier sealant for stand up pouch with added ability to add reclosable functionality.
Packaging Applications		
Compliance	21CFR 177.1520, 177.1350, 178.2010, 178.3297 and 178.3860.	
Dry Ingredients	Yes	Yes
Powdered Ingredients	Yes	Yes
Liquids	Not recommended	Yes
End-Use Applications	Coffee - single serve, ground coffee packages. Not suitable for coffee beans. Can be used for dry snacks like peanuts.	Food, Personal Care, Nutracuetical and Pet including snacks, pet foods, treats, personal care

White Multi-Ply SUP 360 SB Spec # 79935	Clear Recyclable SUP 400 SB Spec # B1900 ♀
Print treated PET laminated to Clear EVOH sealant	Corona treated Polyethylene laminated to Polyethylene
48g Clear PET / 3M White EVOH/mLLDPE	150G Polyethylene / 250G Polyethylene
3.6 mils	4.0 mils
Print treated - Flexible Packaging Film Inks - Contact Ink Supplier	Corona treated - Flexible Packaging Film Inks, HP Digital and EBeam - Contact Ink Supplier
Excellent	Excellent
Good	Excellent
Excellent	Excellent
78 MD / 58 CD	150 MD / 150 CD
Average	Average
Excellent	Poor
.35 grams/100 sq in / day	.08 grams / 100 sq in / day
Average	Average
.07 cc/ 100 sq in / day	.11 cc / 100 sq in / day
Good	Good
Good	Excellent
.239 Kinetic (seal to seal)	<.30 Kinetic (seal to seal)
Good	Good
290 F	290 F
Destruct	Destruct
Good	Good
Not Tested	Not Tested
Good Opacity, EVOH provides excellent OTR barrier, good hermetic seals for extended shelf life, high barrier and heavier sealant for stand up pouch with added ability to add reclosable functionality.	Good contact clarity suitable for pre-formed pouches and traditional FFS, good hermetic seals for extended shelf likfe and added ability to add reclosable functionality. Fully recyclable.
Yes	Yes
Yes	Yes
Yes	No
Food, Personal Care, Nutracuetical and Pet including snacks, pet foods, treats, personal care	Dry goods: snack foods, nuts, grains, sweeteners, cookies, crackers, spices, seasonings, pet food and treats



Flexible Packaging Paper Laminations

	25# PPFP 410 Spec# 79850	25# PPFP w/Surlyn® 385 Spec# B4986	25# PPMOPP 250 Spec# 75746
Structure			
Description	Coated paper facestock with foil barrier and LDPE sealant	Coated paper facestock with foil barrier and Surlyn® sealant	Coated paper face with metallized OPP sealant
Construction	25# C1S/7.2# LDPE/Foil/13# LDPE	25# C1S/ 7.2# LDPE/Foil/ 22# Surlyn®	25# C1S/7# LDPE/Heat-Sealable MOPP
Total Construction Caliper	3.05 mils	3.8 mils	2.5 mils
Printability / Ink Recommendations (Contact your ink supplier for best recommendation)	Flexible Packaging paper inks.	Flexible Packaging paper inks.	Flexible Packaging paper inks.
Exterior Layer Performance Properties			
Dimension Stability	Excellent	Excellent	Excellent
Flex Crack Resistance	Average	Average	Good
Stiffness/Flexibility	Good	Good	Average
Tear Resistance (grams-force)	40 MD/58 CD	80 MD/80 CD	30 MD/33 CD
Barrier Layer Performance Properties			
Chemical Resistance	Average	Average	Average
Light	Excellent	Excellent	Excellent
Moisture Vapor Transmission Rate	0.000 grams/100 sq. in./day	0.001 grams/100 sq. in./day	0.008 grams/100 sq. in./day
Odor	Excellent	Excellent	Excellent
Oxygen Transmission Rate	.000 cc./100 sq. in./day	.000 cc./100 sq. in./day	1.0 cc./100 sq. in./day
Sealant Layer Performance Properties			
Caulk & Flow	Good	Excellent	Average
Hot Tack	Good	Excellent	Good
Coefficient of Friction	.567 Kinetic (Seal to Seal)	.486 Kinetic (Seal to Seal)	.4 Kinetic (Seal to Seal)
Puncture Resistance	3.7 (pounds-force)	3.9 (pounds-force)	9.8 (pounds-force)
Seal Initiation Temperature	250°F	240°F	230°F
Seal Strength	2400 (g/in) @ 300°F/ 20 PSI/ 0.5 sec.	300°F/ 202400 (g/in) @ 300°F/ 20 PSI/ 0.5 sec.PSI/ 1.0 sec.	1000 (g/in) @ 350°F/ 20 PSI/ 0.5 sec.
Seal through Contamination	Good	Excellent	Poor
Mullen Burst Strength	30 psi	26 psi	46 psi
Material Strengths	Better quality print surface than uncoated facestock. Runs well and widely accepted on a variety of packaging equipment. PPFP will tear open without iniation notch. Good Deadfold.	Surlyn® layer helps seal thru contamination when sealing. Runs well and widely accepted on a variety of packaging equipment.	Foil-less pouch stock contributes to better packaging durability. Test for packaging line machinability. Requires a notch to open.
Packaging Applications			
Compliance	21 CFR Sections 177.1520 and 177.1310, 21 CFR section 176.170 (c), Tables 1 and 2	21 CFR Sections 177.1520 and 177.1310, 21 CFR section 176.170 (c), Tables 1 and 2	FDA - CFR177.1520
Dry Ingredients	Yes	Yes	Yes
Powdered Ingredients	Yes	Yes	No
Liquids	Not recommended	Not recommended	Not recommended
End-Use Applications	Lightweight packages such as dry powders and other dry packaged foods.	Lightweight packages such as light, dry powders and mixes that are difficult to seal due to contamination. Good for towelettes and airborne powder.	Lightweight packages such as soup mix and other dry packaged goods.



Flexible Packaging Paper Laminations

35# C1S/ 14# LDPE 310 HB Spec# 79026	35# PPMOPP 315 Spec# 75742	35# PPFP 385 Spec# 79851
Heavyweight coated paper facestock with LDPE sealant	Heavyweight coated paper face with metallized OPP sealant	Heavyweight coated paper facestock with foil barrier and LDPE sealant
35# C1S / 14# LDPE	35# C1S/7# LDPE/Heat Sealable MOPP	35# C1S / 7.2# LDPE/ Foil/13# LDPE
3.2 mils	3.15 mils	3.6 mils
Flexible Packaging paper inks.	Flexible Packaging paper inks.	Flexible Packaging paper inks.
Good	Excellent	Excellent
Good	Good	Average
Average	Average	Good
32.9 MD/43.1 CD	37.3 MD/44.8 CD	60 MD/50 CD
Poor	Average	Average
Average	Excellent	Excellent
1.33 grams/100 sq. in./day	0.008 grams/100 sq. in./day	0.000 grams/100 sq. in./day
Average	Excellent	Excellent
195 cc./100 sq. in./day	1.0 cc./100 sq. in./day	.001 cc./100 sq. in./day
Good	Average	Good
Good	Good	Good
.4 Kinetic (Seal to Seal)	.4 Kinetic (Seal to Seal)	.507 Kinetic (Seal to Seal)
Not Tested	9.5 (pounds-force)	3.7 (pounds-force)
230°F	260°F	250°F
325°F/ 20 PSI/ 0.3 sec.	1000 (g/in) @ 350°F/ 20 PSI/ 0.5 sec.	2400 (g/in) @ 300°F/ 20 PSI/ 0.5 sec.
Poor	Poor	Good
Not Tested	36 psi	35 psi
Simple paper/poly lamination for dry goods with short shelf life and no exposure to moisture. Higher end to a sugar packet material.	Foil-less pouch stock contributes to better packaging durability and heavier weight paper provides packaging stiffness. Test for packaging line machinability. Material requires notch for opening.	Heavier weight paper provides packaging stiffness. Runs well and widely accepted on a variety of packaging equipment. Does not require a notch to open.
CFR title 21, Sections: 176.170 / 177.1520	21 CFR 177.1520(c)2.2	21 CFR Sections 177.1520 and 177.1310, 21 CFR section 176.170 (c), Tables 1 and 2
Yes	Yes	Yes
Some	Yes	Yes
Not recommended	Not recommended	Not recommended
Dry goods - short shelf life: candy, granular packets.	Applications requiring additional package stiffness and puncture resistance such as noodles or rice.	Applications requiring additional package stiffness, good deadfold and puncture resistance such as gravy and soup mixes.

Flexible Packaging StickPack Laminations

	White StickPak LDPE 290 HB Spec# 79340	White StickPak w/Metallocene 320 HB Spec# 78432
Structure		
Description	Printable polyester-faced laminated pouching material designed for tubular form fill and seal equipment	Printable polyester - faced laminated pouch film design for tubular form / fill machines
Construction	48 ga. PET Film/White PE/ Foil/21.6# LDPE	48 ga.PET/10# (W)LDPE/ Foil/7#LDPE/1.25 Mil Metallocene
Total Construction Caliper	2.9 mils	3.2 mils
Printability / Ink Recommendations (Contact your ink supplier for best recommendation)	Flexible Packaging Film Inks.	Flexible Packagig Film Inks NOTE: must corona treated prior to printing
Exterior Layer Performance Properties		
Dimension Stability	Excellent	Excellent
Flex Crack Resistance	Very Good	Good
Stiffness/Flexibility	Good	Good
Tear Resistance (grams-force)	29.8 MD/40.8 CD	84.0 MD/90.5 CD
Barrier Layer Performance Properties		
Chemical Resistance	Average	Excellent
Light	Excellent	Excellent
Moisture Vapor Transmission Rate	0.0004 grams/100 sq. in./day	0.0004 grams/100 sq. in./day
Odor	Excellent	Excellent
Oxygen Transmission Rate	.01 cc./100 sq. in./day	.01 cc./100 sq. in./day
Sealant Layer Performance Properties		
Caulk & Flow	Average	Excellent
Hot Tack	Average	Excellent
Coefficient of Friction	.015 (Kinetic, seal to seal)	0.23 (Kinetic, seal to steel)
Puncture Resistance	11 (pounds-force)	12.7 (pounds-force)
Seal Initiation Temperature	340°F	260°F
Seal Strength	7000 (g/in) @ 350°F/ 40 PSI/ 1.2 sec.	7000 (g/in) @ 350°F/ 20 PSI/ 0.5 sec.
Seal through Contamination	Good	Excellent
Mullen Burst Strength	55 psi	52.5 psi
Material Strengths	Good stickpak stock for general purpose. PET film offers high gloss and resists staining.	Excellent gloss. Good chemical resistance, printability and stiffness for packaging line machinability. COF allows this to run very well on multi-lane stickpack equipment
Packaging Applications		
Compliance	CFR title 21, Sections: 176.170 / 177.1520	21 CFR 176.170
Dry Ingredients	Yes	Yes
Powdered Ingredients	Yes	Yes
Liquids	Not recommended	Some - Must Test
End-Use Applications	Dry goods packaged in vertical stickpak machines	Designed for high speed, tubular formed, powdered drink mix packets.

Flexible Packaging StickPack Laminations

White or Silver StickPak w/Surlyn® 285 HB Spec# 79343 – White Spec# 79344 – Silver	White Cello StickPak Surlyn® Plus 320 HB Spec# B3891 ඁඁ	
Printable polyester-faced laminated pouching material design for tubular form/fill/seal equipment.	Easy Tear Cellulose faced laminated pouch material designed for tubular form/fill machines.	
48 ga. PET/10# WLDPE/Foil/18# SURLYN®	75 ga film/10# WLD/Foil/18# Surlyn®	
2.85 mils	3.2 mils	
Flexible Packaging Film Inks.	Flexible Packaging Film Inks.	
Excellent	Excellent	
Good	Excellent	
Good	Good	
38.4 MD / 44.8 CD	44 MD / 47.6 CD	
Excellent	Excellent	
Excellent	Excellent	
0.0004 grams / 100 sq in /day	0.0004 grams / 100 sq in /day	
Excellent	Excellent	
.01 cc/100 sq.in/day	.01 cc/100 sq. in/day	
Average	Excellent	
Average	Excellent	
0.4 (Kinetic, seal to steel)	0.15 (Kinetic, seal to steel)	
13.4 (pounds-force)	13.4 (pounds-force)	
250°F	230°F	
4000 grams @ 350°F/ 40 PSI .5 sec	4000 grams @ 350°F/ 20 PSI .5 sec	
Excellent	Excellent	
48.8 psi	57.2 psi	
Excellent gloss. Good chemical resistance and printability. Best seal thru contamination product	Bio-Based film face with excellent gloss. Good chemical resistance, printability and stiffness for packaging line machinability. Note: No notch required to open	
21 CFR 177.1330(a)	CFR title 21, Sections: 179.3910 / 177.1520	
Yes	Yes	
Yes	Yes	
Some - Must Test	Some - Must Test	
Applications requiring excellent seal through contamination properties such as high dust environments, and high oil or fat concentrations. Drink mixes, sugar sweeteners for retail and food service packaging, nutritional supplements.	Excellent seal through contamination properties such as high dust environments, and high oil or fat concentrations. Designed for high speed, tubular forms. Common usages: powdered drink mix packets sugar sweeteners for retail, food service packaging and nutritional supplements. Designed to tear easily with no notching required.	



	White Cosmetic Web 350 SB Spec# 75758	White or Silver Cosmetic Web 350 HB Spec# 79332 - White Spec# 79333 - Silver	White Sustainable Cosmetic Web 350 HB Spec #B1885 ႃ
Structure			
Description	White PET faced laminated pouch film	White PET faced laminated pouch film	White print treated PCR PET laminated pouch film
Construction	48 ga. PET/10# WLDPE/Foil/10# HB/ PE/1.5 Mil LLDPE Film	48 ga. PET/10# WLDPE/Foil/10# HB/ PE/1.5 Mil Metallocene Film	48g PCR PET/ 10# WLDPE/Foil/1- # HB-PE/1.5M Bio -Based PE
Total Construction Caliper	3.5 mils	3.5 mils	3.5 mils
Printability / Ink Recommendations (Contact your ink supplier for best recommendation)	Flexible Packaging Film Inks - Contact Ink Supplier	Flexible Packaging Film Inks - Contact Ink Supplier	Flexible Packaging Film Inks - Contact Ink Supplier
Exterior Layer Performance Properties			
Dimension Stability	Excellent	Excellent	Excellent
Flex Crack Resistance	Good	Good	Good
Stiffness/Flexibility	Average	Average	Average
Tear Resistance (grams-force)	59 MD/72 CD	57 MD/67 CD	114.4 MD / 162.3 CD
Barrier Layer Performance Properties			
Chemical Resistance	Good	Good	Good
Light	Excellent	Excellent	Excellent
Moisture Vapor Transmission Rate	0.0004 grams/100 sq. in./day	0.0004 grams/100 sq. in./day	.0004 grams/100 sq in / day
Odor	Excellent	Excellent	Excellent
Oxygen Transmission Rate	.01 cc./100 sq. in./day	.01 cc./100 sq. in./day	.01 cc/ 100 sq in / day
Sealant Layer Performance Properties			
Caulk & Flow	Good	Good	Good
Hot Tack	Good	Good	Good
Coefficient of Friction	0.34	0.35	.15 Kinetic
Puncture Resistance	14.7 (pounds-force)	14.7 (pounds-force)	Not Tested
Seal Initiation Temperature	340°F	300°F	350°F
Seal Strength	7000 (g/in) @ 350°F/ 40 PSI/ 0.5 sec.	7000 (g/in) @ 350°F/ 40 PSI/ 0.5 sec.	>10 lbs
Seal through Contamination	Good	Excellent	Good
Mullen Burst Strength	58 psi	54.9 psi	Not Tested
Material Strengths	Excellent gloss. Good barrier for both liquid and dry goods.	Excellent gloss. Good barrier for both liquid and dry goods. Good seal thru contamination with added chemical resistance and a wide seal temperature range.	Excellent gloss. Good barrier for both liquid and dry goods. Can be tested for applications using virgin cosmetic web. Provides 12% virgina material reduction using both PCR and bio-based resins.
Packaging Applications			
Compliance	21 CFR 176.170	21 CFR 176.170 and 21 CFR 177.1350.	
Dry Ingredients	Yes	Yes	Yes
Powdered Ingredients	Yes	Yes	Yes
Liquids	Some	Some	Yes
End-Use Applications	General purpose wipes, lotions, shampoos, conditioners and other personal care items	General purpose wipes, lotions, shampoos, conditioners and other personal care items	Wet and dry goods in food, cosmetic, nutraceutical and per food/ treats.



Flexible Packaging ChemControl Laminations

White or Silver Cosmetic Web Ultra 370 HB Spec# 77553 - White Spec# 78857 - Silver	White or Silver Cosmetic Ultra Plus 530 HB Spec# 79334 - White Spec# 79335 - Silver	ChemControl Ultra Spec# 54025	ChemControl Premium Ultra Spec# 79537
White PET faced laminated pouch film	White PET faced laminated pouch film	White PET faced laminated pouch film	White PET faced laminated pouch film
48 ga. PET/10# WLDPE/Foil/10# ACP/1.5 Mil LLDPE	48 ga. PET/12# WLDPE/Foil/12# ACP/3 Mil Metallocene F	48G PET/WLDPE/FOIL/ADH / 2M HB SEALANT	48G PET/WLDPE/FOIL/ADH/ BARRIER FILM/ADH/2M PE
3.7 mils	5.3 mils	3.6 mils	4.3 mils
Flexible Packaging Film Inks - Contact Ink Supplier	Flexible Packaging Film Inks - Contact Ink Supplier	Flexible Packaging Film Inks - Contact Ink Supplier	Flexible Packaging Film Inks - Contact Ink Supplier
Excellent	Excellent	Excellent	Excellent
Good	Good	Good	Good
Average	Good	Average	Average
50 MD/75 CD	96 MD/134 CD	7,0010,00	124 CD/55MD
	701167101		12 1 0 0 7 0 0 1 1 0
Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent
0.0004 grams/100 sq. in./day	0.0004 grams/100 sq. in./day	<0.02 grams/100 sq. in./day	0.002 grams/100 sq. in./day
Excellent	Excellent	Excellent	Excellent
.01 cc./100 sq. in./day	.01 cc./100 sq. in./day	<.02 cc./100 sq. in./day	.002 cc./100 sq. in./day
Good	Good	Good	Good
Good	Good	Good	Good
0.4	0.29	.35 Kinetic (seal to seal)	.4 Kinetic (seal to seal)
14.2 (pounds-force)	17.4 (pounds-force)	Not Tested	Not Tested
340°F	340°F	230°F	340°F
7000 (g/in) @ 350°F/ 40 PSI/ 0.5 sec.	7000 (g/in) @ 350°F/ 40 PSI/ 0.5 sec.	4535 (g/in) @ 350°F/ 40 PSI/ 0.5 sec.	7000 (g/in) @ 350°F/ 40 PSI/ 1.0 sec.
Good	Excellent	Excellent	Good
58 psi	60.2 psi		Not Tested
Excellent gloss. Excellent chemical resistance for wet and dry goods.	Excellent gloss. Excellent chemical resistance for wet and dry goods requiring superior seal and burst strength.	Treated facestock with high barrier sealant film for hard to hold ingredients. Excellent seal strength.	C1S facestock with excellent barrier and seal strength for ease of packaging and containing aggressive and volatile ingredients.
21 CFR 176.170 and 21 CFR 177.1350.	21 CFR 176.170 and 21 CFR 177.1350.	FDA - 175.105, 177.1520, 177.1630 AND 178.3910	FDA - 175.105, 176.170, 177.1520, 177.1630 AND 178.201
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Some	Yes	Yes	Yes
Products requiring extra barrier due to aromatic or aggressive ingredients such as sun tan lotion.	Products requiring extra barrier due to aromatic or aggressive ingredients such as sun tan lotion. Superior seal and burst strength to withstand mail and transportation.	Designed for hard to hold ingredients requiring extra chemical resistance. Fit for Use Testing is recommended	Designed for volatile ingredients requiring highest chemical resistance. Fit for Use Testing is recommended



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