



Labelling Solutions for Flexible Packaging



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PAPER-FACED LAMINATED POUCH							FILM-FACED LAMINATED POUCH									
ITEM CODE	AQ953 MC PE 1S-62	AO490 MC PE 1S-105	AN048 PAPER WEB50	AO646 PAPER WEB50 SURLYN	AR813 PAPER WEB50 SURLYN HEAVY	AO642 PAPER WEB80	AO599 COSMETIC WEB WHITE82 EMA	AO600 COSMETIC WEB SILV82 EMA	AO601 COSMETIC WEB WH 115 EAA	AO610 COSMETIC WEB SILV96 HEAV	AO602 SNACK WEB WHITE62 NANO	AO603 SNACK WEB CLEAR62 NANO	AR621 SNACK WEB 52 ECO CLEAR	AS511 SNACK WEB 72 ECO CLEAR	AO605 SNACK WEB SILVER52	
SERVICE	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	Stock, RFS 48 hrs	
STRUCTURE	Coated paper facestock							White laminated pouch film with PET face and Alu barrier								
DESCRIPTION	Coated paper facestock	Coated paper facestock	Coated paper facestock with foil	Coated paper facestock with Surlyn®	Coated paper facestock with thick layer of Alu and Surlyn®	Heavyweight coated paper facestock with foil	White laminated pouch film with PET face and Alu barrier	Silver laminated pouch film with PET face and Alu barrier	White laminated pouch film with PET face and thick Alu barrier	Silver laminated pouch film with PET face and thick Alu barrier	White laminated pouch film with PET face and Silicon Oxide barrier	Clear laminated pouch film with PET face and Silicon Oxide barrier	Clear laminated pouch film with PET face and no additional barrier	Clear laminated pouch film with PET face and no additional barrier	Silver laminated pouch film with metallised PET face	
CONSTRUCTION	CC50/PE 12gr	CC90/PE 15gr	CC50/PE 12gr /ALU 6.5µ/PE 25gr	CC50/PE 12gr /ALU 6.5µ/COEX SURLYN 23gr	CC50/PE 12gr /ALU 9.0µ/SURLYN 23gr	CC80/PE 12gr /ALU 6.5µ/PE 25gr	PET 12µ/LDPE white 20 gr/Alu 7µ/EMA 15gr/PE 30µ	PET 12µ/LDPE 20 gr/Alu 7µ/EMA 15gr/PE 30µ	PET 12µ/LDPE 20 gr/Alu 7µ/EAA 18gr/PE 60µ	PET 12µ/Adh/Alu 9µ/Adh/PE 75µ	PET 12µ SiOx/Adh/PE white 50µ	PET 12µ SiOx/Adh/PE 50µ	PET 12µ /Adh/PE 40µ	PET 12µ /Adh/PE 60µ	PETmet 12µ /Adh/PE 40µ	
TOTAL CONSTRUCTION CALIPER	58µ	95µ	85µ	83µ	86µ	109µ	82µ	82µ	115µ	96µ	62µ	62µ	52µ	72µ	52µ	
PRINTABILITY*	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	UV Flexo. UV offset Printing	
EXTERIOR LAYER PERFORMANCE PROPERTIES																
DIMENSION STABILITY	Average	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
FLEX CRACK RESISTANCE	Excellent	Excellent	Average	Average	Average	Average	Good	Good	Good	Good	Good	Good	Good	Good	Good	
INK RECOMMENDATION	Traditional paper inks. Contact ink supplier.	Traditional paper inks. Contact ink supplier.	Traditional paper inks. Contact ink supplier.	Traditional paper inks. Contact ink supplier.	Traditional paper inks. Contact ink supplier.	Traditional paper inks. Contact ink supplier.	Film inks. Contact ink supplier.	Film inks. Contact ink supplier.	Film inks. Contact ink supplier.	Film inks. Contact ink supplier.	Film inks. Contact ink supplier.	Film inks. Contact ink supplier.	Film inks. Contact ink supplier.	Film inks. Contact ink supplier.	Film inks. Contact ink supplier.	
STIFFNESS/FLEXIBILITY	Low	Good	Good	Good	Good	Good	Average	Average	Good	Average	Average	Average	Average	Average	Average	
TEAR RESISTANCE (CN)	>26 MD / >32 CD	Not Tested	>35 MD / >40 CD	>60 MD / >60 CD	>50 MD / >60 CD	>70 MD / >75 CD	>45 MD / >45 CD	>45 MD / >45 CD	>90 MD / >150 CD	>60 MD / >110 CD	>25 MD / >35 CD	>25 MD / >35 CD	>15 MD / >20 CD	>25 MD / >25 MD	>15 MD / >35 CD	
BARRIER LAYER PERFORMANCE PROPERTIES																
CHEMICAL RESISTANCE	Poor	Poor	Average	Good	Good	Average	Good	Good	Excellent	Average	Average	Average	Average	Average	Average	
LIGHT	Average	Average	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Poor	Poor	Poor	Poor	Excellent	
MOISTURE VAPOR TRANSMISSION RATE (G/M ² /DAY)	Not Tested	8 - 103)	≤ 0.5 4)	≤ 0.5 4)	≤ 0.5 4)	≤ 0.5 4)	< 0.05 3)	< 0.05 3)	< 0.05 3)	< 0.05 3)	0,1 - 0,2 3)	0,1 - 0,2 3)	2,7 3)	1,4 3)	0,1 - 0,2 3)	
ODOR	Average	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Average	Average	Average	Average	Average	Average	
OXYGEN TRANSMISSION RATE (CM ³ /M ² /DAY)	Not Tested	> 1000 5) (No relevant oxygen barrier)	≤ 0.5 5)	≤ 0.5 5)	≤ 0.5 5)	≤ 0.5 5)	< 0.05 5)	< 0.05 5)	< 0.05 5)	< 0.05 5)	0,3 - 0,6 5)	0,3 - 0,6 5)	104 5)	106 5)	0,5 - 1,0 5)	
SEALANT LAYER PERFORMANCE PROPERTIES																
CAULK & FLOW	Not Tested	Good	Good	Excellent	Excellent	Good	Good	Good	Good	Not Tested	Good	Good	Average	Good	Good	
HOT TACK	Not Tested	Good	Good	Excellent	Excellent	Good	Good	Good	Good	Not Tested	Good	Good	Average	Good	Good	
COEFFICIENT OF FRICTION (FILM/FILM) (µS)	Not Tested	0,5	0,6	0,5	0,5	0,6	0,25 - 0,45	0,25 - 0,45	0,35 - 0,50	0,30 - 0,45	0,30 - 0,50	0,30 - 0,45	Not Tested	Not Tested	0,30 - 0,50	
SEAL INITIATION TEMPERATURE	Not Tested	108 °C	150-180 °C	140-160 °C	140-160 °C	110-150 °C	140 °C	140 °C	140 °C	140 °C	140 °C	140 °C	140 °C	140 °C	140 °C	
SEAL STRENGTH (N/15 MM)	Not Tested	Not Tested	8> 6)	8> 6)	8> 6)	8> 6)	>20	>20	>35	>35	>30	>30	>35	>35	>25	
SEAL THROUGH CONTAMINATION	Not Tested	Good	Good	Excellent	Excellent	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	
BURST STRENGTH (KPA)	120	Not Tested	> 170	> 160	> 170	> 250	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	
MATERIAL STRENGTHS	Laminated pouch for dry goods that do not require higher barrier.	Laminated pouch for dry goods that do not require higher barrier.	Runs well and widely accepted on a variety of packaging equipment.	Surlyn® layer helps seal thru contamination and moisture during sealing process.	Excellent sealing properties due to the thick layer of Surlyn. Excellent barrier properties due to a thick layer of Alu.	Heavier weight paper provides packaging stiffness.	Excellent gloss. Good chemical resistance and printability.	Excellent gloss. Good chemical resistance and printability.	Excellent gloss. Excellent chemical resistance and printability.	Excellent gloss. Good chemical resistance and printability.	Good OTR barrier properties (without saran), good MVTR, and hermetic seals for extended shelf life.	Good OTR barrier properties (without Saran®), good MVTR, and hermetic seals for extended shelf life.	Clear package for product visibility. Low barrier material.	Clear package for product visibility. Low barrier material.	Excellent UV, OTR and MVTR barrier properties and hermetic seals for extended shelf life.	
PACKAGING APPLICATIONS**																
DRY FOOD INGREDIENTS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
POWDERED INGREDIENTS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
LIQUIDS	Not recommended	Not recommended	Some	Some	Some	Some	Some	Some	Some	Some	Some	Some	Not recommended	Not recommended	Some	
END-USE APPLICATIONS	Lightweight packages such as sugar, pepper, salt and dried milk that do not require a barrier.	Lightweight packages such as sugar, pepper, salt, seeds and dried milk that do not require a barrier.	Lightweight packages such as dry powders, wet wipes, spices and mixes that need a barrier.	Lightweight packages such as dry powders, wet wipes, spices and mixes that are difficult to seal due to contamination.	Perfect for small pouches with dry products like pharmaceutical powders or product samples for cosmetics.	Applications requiring additional package stiffness and puncture resistance such as noodles or rice.	Hard-to-hold products such as wipes, lotions, shampoos, etc.	Hard-to-hold products such as wipes, lotions, shampoos, etc.	Hard-to-hold products such as wipes, lotions, shampoos, etc. with volatile or aromatic components. Ideal for pouches in magazines.	Hard-to-hold products such as wipes, lotions, shampoos, etc.	Nuts and other oxygen-sensitive salted snacks, fatty and oily ingredients that need a transparent pouch	Nuts and other oxygen-sensitive salted snacks, fatty and oily ingredients that need a white pouch	For general-purpose good applications that do not need high barriers (very good alternative for BOPP pouch applications)	For general-purpose good applications that do not need high barriers (very good alternative for BOPP pouch applications)	Coffee - single serve, ground coffee packages, nuts and other oxygen sensitive snacks.	

* Discuss with you ink suppliers the specific inks for flexible packaging
 ** It is always advised that the end-user is doing extensive testing on the materials, we can only recommend
 3) measured at 23°C-85%RH
 4) measured at 38°C-90%RH (ASTM F 1249)
 5) measured at 23°C-50%RH
 6) test conditions: 150° C, 2,8 bar, 0,6 sec

Flexible Packaging Terms

MVTR: Moisture Vapor Transmission Rate is the rate which moisture vapor can permeate through the structure and into a dry atmosphere on the other side. It is recorded in units of gr/m²/24 hour (g/m²/24 hr). MVTR is dependant on the gauge of the structure, the materials used in the structure and the quality of the materials used. Vapor can pass through channels in the seals, holes, tears, or imperfections in the package.

Seal Strength: Measured force in grams per inch required to break a seal.

Seal Through Contamination: Contaminants are particles of foreign matter which may be present in the seal area. Contaminants may be designed into a sealant layer to achieve peelable seals.

Coefficient of Friction: Measurement of surface slip. Determined by pulling a known weight (sled) over the test surface to determine the force necessary to produce the movement. The higher the COF, the lower the slip.

Dimensional Stability: The absence of dimensional change of a material when subjected to changes in temperature, humidity, heat or aging.

Flex Crack Resistance: A material's resistance to withstand breakage due to repeated folding.

Hot Tack: Capability of a heat seal to remain sealed when it is stressed while still hot.

New developments to be added soon!

	PAPER-FACED LAMINATED POUCH		FILM-FACED LAMINATED POUCH		
ITEM CODE	NEW	NEW	NEW	AU666	AU668
SERVICE	Brown Paper Web 50	Paper Web metPP	Silver Cosmetic Web light 79	White Cosmetic Web light 79	White Cosmetic Web heavy 96
CONSTRUCTION	Brown kraft Paper50g/PE12g/Alu6,5μ/PE25g	CC50g/OPPmet20μ	PET12μ/Adh/Alu7μ/Adh/PE60μ	PET12μ/white ink/Adh/Alu7μ/Adh/PE60μ	PET12μ/white ink/Adh/Alu9μ/Adh/PE75μ
DESCRIPTION	A three layer laminate with paper facestock and aluminium for stronger barrier properties. Heat-sealable. Printable in UV flexo, UV Offset, gravure and letterpress.	A two layer laminate with a paper face stock and a metallized PP for heat-sealing. Has a good barrier against moisture, aroma and UV. Printable in UV flexo, UV Offset, gravure and letterpress.	A three layer Silver laminate with a film facestock and an aluminum layer for stronger barrier properties. Printable in UV Flexo and UV offset	A three layer white laminate with a film facestock and an aluminum layer for stronger barrier properties. Printable in UV Flexo and UV offset	A three layer white laminate with a film facestock and an aluminum layer for stronger barrier properties. The thicker PE provides more rigidity. Printable in UV Flexo and UV offset
END-USE APPLICATIONS	Lightweight packages such as dry powders, wet wipes, spices and mixes that need a barrier and a more natural, ecological look.	Premium tea envelopes.	Hard-to-hold products such as wipes, lotions, shampoos, etc. requiring limited rigidity.	Hard-to-hold products such as wipes, lotions, shampoos, etc. requiring limited rigidity.	Hard-to-hold products such as wipes, lotions, shampoos, etc.
AVAILABLE AS OF	March 2014	April 2014	In development	Available on request	Available on request

	TUBE LAMINATES			OTHER	
ITEM CODE	AQ580	AV557	AV558	NEW	AO467
SERVICE	TUBE LAMINATE WHITE 275 ABL	TUBE LAMINATE WHITE 300 PBL	TUBE LAMINATE WHITE 350 PBL	Silver Foil TOP 85 SEAL	Paper Lidding Laminate
CONSTRUCTION	PE150μ/LDPE23g/Alu20μ/LDPE23g/PE60μ	PE110μ/PEwh35g/PE20μ-EVOH15μ-PE20μ/PEwh35g/PECI60μ	PE150μ/PEwh25g/PE24μ/5μm BA/EVOH12μm/BA/PEwh25g/PECI75μ	Coated Alu9μ/Adh/PE75μ	CC40g/PE15g/PETmet12μ/PE14g/PE14μ
DESCRIPTION	A three layer white tube laminate with a PE facestock and an aluminum barrier. Printable in UV Flexo and UV offset.	A white tube laminate with a PE facestock and an EVOH barrier. Printable in UV Flexo and UV offset.	A white tube laminate with a PE facestock and an EVOH barrier. Greater thickness for more rigidity in the material. Printable in UV Flexo and UV offset.	A two layer laminate: TOP coated silver foil with a sealant. Printable in UV Flexo and UV offset, to be overlaminated with a PET film.	Excellent sealing properties. Peelable PE layer on the back side and coated paper on the front side. Can be gammasterilized. Easy printing in flexo, gravure and letterpress.
END-USE APPLICATIONS	Small tube applications.	Medium tube applications.	Large tube applications.	To be used in combination with a clear film to produce sub-surface printed final construction.	A strong puncture resistant paper face material for lidding applications which require easy opening.
AVAILABLE AS OF	Available on request	In development	In development	Sample reels available	In development

*Service subject to change depending on the forecast from the customer