



Addendum No. I

Bid No. 16/17-01NS, Kitchen Equipment & Accessories

October 25, 2016

This addendum forms a part of the contract and modifies the original bid documents. It is intended that all work affected by the following modifications shall conform to related provisions and general conditions of the contract, of the original bid documents. **Modify the following items wherever appearing in any portion of the bid documents.** Acknowledge receipt of Addendum No. I in the space provided on this form as well as on the bid form. Failure to do so may subject bidder to disqualification.

Changes and/or Additions to Bid Documents

- 1.1 Additions made to the "Revised Bid Form Pricing Sheet" (reference attachment).
 - 1.1.1 Change made to Item Numbers 78 through 87 (identified in Red).
 - 1.1.2 Submit the Revised Bid Form included with this Addendum for bid submittal.

Request for Information (RFI):

Request to Submit and/or Equal

- 1.2 As requested in the instructions for Bid No. 16/17-01NS, this is a request to submit a sample of a substitute for the hot film {#'s 78-82) and the cold film {#'s 83-87), listed as from Platinum Packaging. Both our Amtopp cold film and DuPont hot film have the advantage of being manufactured in America using America's advanced technology. For years we have been unwilling to sell foreign made films due to inconsistent quality. We are proud to offer Irvine USD a superior product that is made in America.

District Response:

Yes, the District will accept both Amtopp cold film and DuPont hot film as an Or Equal. Samples will not be necessary as the specifications attached hereto suffice.

ALL OTHER PROVISIONS of the Bid Documents shall remain unchanged. This Addendum is hereby made a part of the Bid Documents to the same extent as those provisions contained in the original documents and all itemized listings thereof.

NOTE: The failure or omission of any bidder to receive or examine any bid document, forms, instrument, addendum, specifications, or other documents, shall by no means relieve any bidder from any obligation with respect to his bid or to the contract.



SIGN AND RETURN ONE COPY OF THIS ADDENDUM WITH YOUR BID.

Bid Due Date: October 31, 2016 at 11:00 am.

Company Name

Print Name and Title

Signature

Date



FIRM NAME: _____

ADDRESS: _____

TELEPHONE: (_____) _____ **FAX:** (_____) _____

E-MAIL ADDRESS: _____

REVISED - BID FORM AND REQUIRED DOCUMENTS ATTACHED HERETO

FOR

BID NO. 16/17-01NS,

KITCHEN EQUIPMENT & ACCESSORIES

FOR

IRVINE UNIFIED SCHOOL DISTRICT

PURCHASING DEPT.

5050 BARRANCA PARKWAY

IRVINE, CA 92604



REVISED - BID FORM

Bidder Name: _____

To: Irvine Unified School District, acting by and through the Governing Board herein, called the “District.”

1. The undersigned bidder, having become familiarized with all the following documents including but not limited to the Notice Calling for Bids, Calendar of Events, Bid Form, Bid Form Pricing Sheet, Information for Bidders, Noncollusion Declaration, Certification of Primary Participant Regarding Debarment, Suspension & Other Related Matters, Certificate of Lobbying, Tobacco Use Policy, Workers’ Compensation Certificate, Agreement, Drug-Free Workplace Certification, Criminal Records Check Certification, all insurance requirements, General Conditions, specifications, and all modifications, addenda and amendments, if any (hereinafter Bid Documents), the local conditions affecting the performance of the work and the cost of the work at the place where the work is to be done, hereby proposes and agrees to be bound by all the terms and conditions of the Bid Documents and agrees to perform, within the time stipulated, the work, including all of its component parts, and everything required to be performed, and to provide and furnish and pay for any and all of the labor, materials, supplies, tools, equipment, and all applicable taxes, utility and transportation services necessary to perform the work and complete in a good workmanlike manner all of the work required in accordance with laws, codes, regulations, ordinances and any other legal requirements governing the work, in connection with the following:

Bid No. 16/17-01NS, Kitchen Equipment & Accessories

All in strict conformity with the Bid Documents, including Addenda Nos. _____, _____, _____, on file at the Purchasing Dept. of the Irvine Unified School District for the sums as set forth in this Bid Form.

2. It is understood that the District reserves the right to reject any or all bids or to waive any irregularities or informalities in any bids or in the bidding process. Bidder agrees that this bid shall remain open and not be withdrawn for the period specified in the Information for Bidders.

3. The initial term of the Agreement is January 1, 2017 through December 31, 2017. Term of the Agreement may be extended upon mutual consent of District and successful bidder(s) for an additional two (2) one (1) year periods in accordance with provisions contained in the Education Code section 17596 (K-12). The maximum term of the Agreement is three (3) years.

4. It is understood and agreed that if written notice of the award of a contract is mailed, faxed, or delivered to the bidder, the bidder will execute and deliver to the **Irvine Unified School District** the Agreement and will also furnish and deliver to the **Irvine Unified School District** certificates and endorsements of insurance, the Workers’ Compensation Certificate, Tobacco Use Policy, Drug-Free Work Place Certification, and the Criminal Records Check Certification, within five (5) working days of the notice of award of the contract.



5. Communication conveying notice of award of the contract, requests for additional information or other correspondence should be addressed to the bidder stated below in Section 6.

6. The name(s) of all persons interested in the bid as principals are as follows:

Name	Address	Phone/ Email
_____	_____	_____
_____	_____	_____
_____	_____	_____

7. The bidder hereby warrants that the bidder has all appropriate licenses and permits to perform the work as specified in the bid documents and that such licenses and permits will be in force and effect throughout the Agreement.

8. The bidder, whether manufacturer, supplier, distributor or retailer, hereby certifies that the products offered under this bid have been placed in regular commercial use for a period of at least three (3) years and that adequate spare parts exist in the marketplace for the items sold.

9. In submitting this bid, the bidder offers and agrees that if the bid is accepted, it will assign to the DISTRICT all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (Business & Professions Code Section 16700, et seq.) arising from purchases of goods, materials, or services by the bidder for sale to the DISTRICT pursuant to the bid. Such assignment shall be made and become effective at the time the DISTRICT tenders final payment under the contract. (Public Contract Code Section 7103.5; Government Code Section 4450, 4451 and 4552).

10. The bidder hereby certifies that it is, and at all times during the performance of work hereunder shall be, in full compliance with the provisions of the Immigration Reform and Control Act of 1986 ("IRCA") in the hiring of its employees, and the bidder shall indemnify, hold harmless and defend the DISTRICT against any and all actions, proceedings, penalties or claims arising out of the bidder's failure to comply strictly with the IRCA.

11. It is understood and agreed that if requested by the DISTRICT, the bidder shall furnish a notarized financial statement, references, and other information required by the DISTRICT that is sufficiently comprehensive to permit an appraisal of bidder's ability to perform the work.

12. **Time is of the essence.**

13. The required Noncollusion Declaration is attached as required by Public Contract Code Section 7106. Bidder understands and agrees that failure to submit a completed and signed declaration will render the bidder automatically nonresponsive.

14. Failure to complete the Bid Form and Bid Form Pricing Sheet in its entirety will render a bidder nonresponsive.



15. **Bid prices are to include shipping, F.O.B. Irvine Unified School District, assembly, inside delivery, and any required installation.**

16. Pursuant to Public Contract Code Sections 20118 and 20652, other public agencies in the State of California may procure identical items off this bid under the same terms and conditions. Public agencies in the State of California shall process their purchase orders and warrants directly to the successful bidder upon agreement by their District and the successful bidder. Acceptance or rejection of this clause will not affect the outcome of this bid.

OPTION GRANTED: _____ **OPTION NOT GRANTED:** _____

17. List of References. Please provide references of school districts and/or any public agencies that bidder has contracted with to provide kitchen equipment and accessories as required under Section 30, Information for Bidders.

1. Name: _____
Address and Telephone: _____

Contact Person: _____
Description of Product: _____

2. Name: _____
Address and Telephone: _____

Contact Person: _____
Description of Product: _____

3. Name: _____
Address and Telephone: _____

Contact Person: _____
Description of Product: _____



4. Name: _____

Address and Telephone: _____

Contact Person: _____

Description of Product: _____

5. Name: _____

Address and Telephone: _____

Contact Person: _____

Description of Product: _____

**KITCHEN EQUIPMENT & ACCESSORIES****REVISED - BID FORM PRICING SHEET****Equipment**

Line #	Description	Manufacturer & Model No.	Est. Qty	Unit Cost	Extended Price
1	Aluminum Can Rack, 24 3/4 x 35 1/8 x 40 1/8	Advance Tabco CR10-54	4		
2	School milk cooler, single access forced air, stainless steel, 49"	Beverage Air SMF-49Y-1-S	5		
3	School milk cooler, single access forced air, stainless steel, 58"	Beverage Air SMF58-S	5		
4	School Milk Cooler, single access, stainless steel, 49"	Beverage Air SM49N-S	6		
5	School Milk Cooler, single access, stainless steel, 58"	Beverage Air SM58N-S	6		
6	Dual Flow Gas Convection Bakery Oven, Full Size Bakery Depth, double stack	Blodgett DFG-200-ES DBL	5		
7	60" gas grill with optional dual lids, 160Kbtu	MagiKitch'n LPAGA60	2		
8	Quickthern rethermilization cart, single phase, 208 volt	Crescor RO-151-FUA-18DE	3		
9	Quickthern rethermilization cart, three phase, 208 Volt	Crescor RO-151-FUA-18DE	3		
10	Quickthern rethermilization cart, single phase, 208 volt	Crescor RO-151-FUA-18DX	3		
11	Quickthern rethermilization cart, three phase, 208 Volt	Crescor RO-151-FUA-18DX	3		
12	Insulated Stainless Steel Super Duty Hot Cabinet, two door	Crescor H-137-SUA-12D	10		
13	Insulated Stainless Steel Super Duty Hot Cabinet, two door	Crescor H-137-SUA-12D-SD	10		
14	Heated cabinet, 63"	G.A. Systems H5	10		
15	Heated elementary cabinet, 63"	G.A. Systems EH5	10		
16	Refrigerated cabinet, 63"	G.A. Systems C5	10		
17	Refrigerated elementary cabinet, 63"	G.A. Systems EC5	10		
18	Heated cabinet, 76"	G.A. Systems H6	10		
19	Heated elementary cabinet, 76"	G.A. Systems EH6	5		
20	Refrigerated cabinet, 76"	G.A. Systems C6	10		
21	Refrigerated elementary cabinet, 76"	G.A. Systems EC6	5		

**Equipment Con't.**

Line #	Description	Manufacturer & Model No.	Est. Qty	Unit Cost	Extended Price
22	Stainless steel basket, 2"	G.A. Systems B13202S	200		
23	Stainless steel basket, 4"	G.A. Systems B13204S	400		
24	Heated cabinet, 50"	G.A. Systems H4	5		
25	Heated elementary cabinet, 50"	G.A. Systems EH4	5		
26	Refrigerated cabinet, 50"	G.A. Systems C4	5		
27	Refrigerated elementary cabinet, 50"	G.A. Systems EC4	5		
28	Sneeze guard, double sided, accomodate 63" cabinet	G.A. Systems DSN63	6		
29	Sneeze guard, double sided, accommodate 50" cabinet	G.A. Systems DSN50	2		
30	Sneeze guard, double sided, accommodate 76" unit	G.A. Systems DSN76	2		
31	Freezer Cabinet	G.A. Systems F3	10		
32	Freezer Cabinet	G.A. Systems EF3	2		
33	Merchandising Cabinet, 54"	G.A. Systems D5	10		
34	Merchandising rack 54" (two shelves)	G.A. Systems MD542	5		
35	Merchandising Cabinet, 48"	G.A. Systems D4	10		
36	Merchandising rack 48" (two shelves)	G.A. Systems MD482	5		
37	Utility Cart (assembled)	Metro MY2636-25BU	15		
38	Mobile Security Unit Shelving (assembled)	Metro SEC55DC	10		
39	Commercial microwave oven (sonic steamer), 3200 watt	Panasonic NE-3280	6		
40	Commercial microwave oven, 1200 watt	Panasonic NE-12521	8		
41	Bag Blower Body System with tape sealer 4300 with scoop	Sunrise Packaging	5		
42	"D-Width" Hinged Glass Door Reach-In Refrigerator/Self-Contained, 1-Section Half Length Door Model	Traulsen AHT132DUT-HHG	4		

**Equipment Con't.**

Line #	Description	Manufacturer & Model No.	Est. Qty	Unit Cost	Extended Price
43	"N-Width" Hinged Glass Door Pass-Thru Refrigerators/Self-Contained, 2-Section Half Length Door Model	Traulsen AHT232NPUT-HHG	1		
44	"N-Width" Hinged Glass Door Reach-In Refrigerators/Self-Contained, 2-Section Half Length Door Model	Traulsen AHT232NUT-HHG	2		
45	"N-Width" Reach-In Freezer Models/Self-Contained, 2-Section Half Length Door Model	Traulsen ALT232NUT-HHS	2		
46	Utility Cart	Vollrath 97160	10		
47	Utility Cart	Vollrath 971611	20		
48	Reach-in solid swing door freezer, stainless steel, one-door	TRUE STA1F-1S	10		
49	Reach-in solid swing door refrigerator, stainless steel, one-door	TRUE STA1R-1S	10		
50	Reach-in solid swing door freezer, stainless steel, two-door	TRUE STA2F-2S	5		
51	Reach-in solid swing door refrigerator, stainless steel, two-door	TRUE STA2R-2S	5		
52	Reach-in solid swing door refrigerator, stainless steel, three-door	TRUE STA3R-3S	3		
53	Reach-in solid half swing door refrigerator, stainless steel, two-door	TRUE STA2R-4HS	3		
54	Reach-in solid half swing door freezer, stainless steel, two-door	TRUE STA2F-4HS	3		
55	Mobile Transfer Pump, single barrel pump	Tucs Equipment Model TETP/1	2		
56	Mobile Transfer Pump, dual barrel pump	Tucs Equipment Model TETP/2	2		
57	Self Cooking Center, combi oven (102NG)	Rational A128206.19E	3		
58	Self Cooking Center, combi oven (62G)	Rational A628206.19E	6		
59	5 quart mixer all purpose mixer w/bowl, beater, whip & hook	Hobart N50	2		
60	12 quart all purpose mixer w/ bowl, beater, & whip	Hobart HL 120	2		
61	Vertical Drying and Storage Rack, 24" x 60" x 75", Capacity: 105 Trays	Cambro CPMU246075DRPKG	8		
62	Angled Drying and Storage Rack, 24" x 48" x 75", Capacity: 128 Pellets & Bases	Cambro CPMU244875PDPKG	8		
63	Digital Test Thermometer	Cooper Atkins DFP450W	200		

**Equipment Con't.**

Line #	Description	Manufacturer & Model No.	Est. Qty	Unit Cost	Extended Price
64	Vertical Glass Tube Refrigerator/Freezer Thermometer	Cooper Atkins 330	200		
65	Saf-T-Grip Cutting Boards, 18" x 24" x 1/2", Red, Capacity: Individual	San Jamar CBG182412RD	20		
66	Saf-T-Grip Cutting Boards, 18" x 24" x 1/3", Yellow, Capacity: Individual	San Jamar CBG182412YL	20		
67	Saf-T-Grip Cutting Boards, 18" x 24" x 1/4", Green Brown, Capacity: Individual	San Jamar CBG182412GN	20		
68	Saf-T-Grip Cutting Boards, 18" x 24" x 1/5", Blue, Capacity: Individual	San Jamar CBG182412BL	20		
69	Saf-T-Grip Cutting Boards, 18" x 24" x 1/6", White, Capacity: Individual	San Jamar CBG182412WH	20		
70	Dial Oven Thermometer, 2 1/2" x 2 3/4", Stainless Steel	Cooper-Atkins 24HP-01-1	200		
71	Vita-Mix Vita-Prep commercial food blender, 64 oz.	Vitamix VM0101	5		
72	Aluminum Colander, 15" x 5 3/4", Capacity: 11 qt	Vollrath 68298	5		
73	Aluminum Colander, 16 1/2" x 7 1/4", Capacity: 16 qt	Vollrath 68350	5		
74	UG II Mobile Oven Stand	Rational 60.30.332	3		
75	Combi-Duo Stacking Kit	Rational 60.71.936	3		

Accessories

Line #	Description	Manufacturer & Model No.	Est. Qty	Unit Cost	Extended Price
76	Bag Blower Bags #68, non vented	Sunrise Packaging	125		
77	Solid Color 3-Pocket Bib Aprons, 24" x 28", Royal Blue	ChefWorks 83876	200		
78a	Film, 80 Gauge Hot, 12" (priced by pound)	Platinum Packaging Platseal	500 lb		
78b	Film, 80 Gauge Hot, 12" (priced by pound)	Alternate: DuPont	500 lb		
79a	Film, 80 Gauge Hot, 14 1/2" (priced by pound)	Platinum Packaging Platseal	500 lb		
79b	Film, 80 Gauge Hot, 14 1/2" (priced by pound)	Alternate: DuPont	500 lb		
80a	Film, 80 Gauge Hot, 15 1/2" (priced by pound)	Platinum Packaging Platseal	500 lb		
80b	Film, 80 Gauge Hot, 15 1/2" (priced by pound)	Alternate: DuPont	500 lb		
81a	Film, 80 Gauge Hot Perforated , 13 1/2" (priced by pound)	Platinum Packaging Platseal	500 lb		
81b	Film, 80 Gauge Hot Perforated , 13 1/2" (priced by pound)	Alternate: DuPont	500 lb		
82a	Film, 80 Gauge Hot Perforated, 14 1/2" (priced by pound)	Platinum Packaging Platseal	500 lb		
82b	Film, 80 Gauge Hot Perforated, 14 1/2" (priced by pound)	Alternate: DuPont	500 lb		
83a	Film, 100 Gauge Cold, 10" (priced by pound)	Platinum Packaging Platseal	500 lb		
83b	Film, 100 Gauge Cold, 10" (priced by pound)	Alternate: Amtopp	500 lb		
84a	Film, 100 Gauge Cold, 12" (priced by pound)	Platinum Packaging Platseal	500 lb		
84b	Film, 100 Gauge Cold, 12" (priced by pound)	Alternate: Amtopp	500 lb		
85a	Film, 100 Gauge Cold, 13 1/2" (priced by pound)	Platinum Packaging Platseal	500 lb		
85b	Film, 100 Gauge Cold, 13 1/2" (priced by pound)	Alternate: Amtopp	500 lb		
86a	Film, 100 Gauge Cold, 13" (priced by pound)	Platinum Packaging Platseal	500 lb		
86b	Film, 100 Gauge Cold, 13" (priced by pound)	Alternate: Amtopp	500 lb		
87a	Film, 100 Gauge Cold, 15 1/2" (priced by pound)	Platinum Packaging Platseal	500 lb		
87b	Film, 100 Gauge Cold, 15 1/2" (priced by pound)	Alternate: Amtopp	500 lb		

**Accessories Con't.**

Line #	Description	Manufacturer & Model No.	Est. Qty	Unit Cost	Extended Price
88	Tall Container, Black	Platinum Packaging PT108-BB	40		
89	Low Density Food Grade Polyethylene Bags, 6" x 8 3/4" x 1 1/2"	Sunrise Packaging BBB68NV	20		
90	Produce Tape Bag Sealers	Sunrise Packaging EZTS2333	10		
91	Lidding film type 1153, 4-5/8" x 2800'	Sunrise Packaging	15		
92	Cleaner tabs for Rational Self Cooking Center unit, bucket of 100	Rational 56.00.210A	5		
93	Care tabs for Rational Self Cooking Center unit, bucket of 100 packets	Rational 56.00.562	5		
94	Fit Brand Produce Wash, 5 Gal	FIT	5		
95	Cell hot deep tray, sealable @ 2500/cs	Plastic Package 4551-8	50		



Catalog Discounts

96	Other Advance Tabco: Non-Specified Items	_____	% Catalog Discount
97	Other Beverage Air: Non-Specified Items	_____	% Catalog Discount
98	Other Blodgett: Non-Specified Items	_____	% Catalog Discount
99	Other Crescor: Non-Specified Items	_____	% Catalog Discount
100	Other G.A. Systems: Non-Specified Items	_____	% Catalog Discount
101	Other Metro: Non-Specified Items	_____	% Catalog Discount
102	Other True: Non-Specified Items	_____	% Catalog Discount
103	Other Cambro: Non-Specified Items	_____	% Catalog Discount
104	Other San Jamar: Non-Specified Items	_____	% Catalog Discount
105	Other Vitamix: Non-Specified Items	_____	% Catalog Discount
106	Other Wear-Ever: Non-Specified Items	_____	% Catalog Discount
107	Other Wusthof: Non-Specified Items	_____	% Catalog Discount
108	Other ChefWorks: Non-Specified Items	_____	% Catalog Discount
109	Other Platinum Packaging: Non-Specified Items	_____	% Catalog Discount
110	Other Rational: Non-Specified Items	_____	% Catalog Discount
111	Submitting Vendor Catalog if Not Specified Above	_____	% Catalog Discount

Company Name: _____

Vendor Name: _____

Vendor Signature: _____

Date: _____



The undersigned hereby declares that all of the representatives of this bid are made under penalty of perjury under the laws of the State of California.

Individual Name: _____
Signed by: _____
Print Name: _____
Date: _____
Business Address: _____
Telephone: _____

Partnership Name: _____
Signed by: _____
Print Name: _____
Date: _____
Business Address: _____
Telephone: _____
Other Partner(s): _____

Corporation Name: _____
(a _____ Corporation)
Business Address: _____
Telephone _____
Signed by: _____, President Date: _____
Print Name: _____, President Date: _____
Signed by: _____, Secretary Date: _____
Print Name: _____, Secretary Date: _____

¹A corporation awarded the contract shall furnish evidence of its corporate existence and evidence that the officer signing the Agreement and bonds is duly authorized to do so.

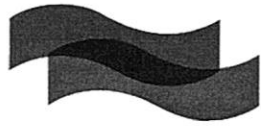


Joint Venturer Name: _____
 Signed by: _____
 Print Name: _____
 Date: _____
 Business Address: _____
 Telephone: _____

Other Parties to Joint Venturer *If an individual* Name: _____
 Signed by: _____
 Print Name: _____
 Date: _____
 Doing Business as: _____
 Business Address: _____
 Telephone: _____

If a Partnership Name: _____
 Signed by: _____
 Print Name: _____
 Date: _____
 Business Address: _____
 Telephone: _____

If a Corporation Name: _____
 (a _____ Corporation)
 Signed by: _____
 Print Name: _____
 Title: _____
 Date: _____
 Business Address: _____
 Telephone: _____



DuPont Teijin Films™

Welcome, Guest | Current Language: US

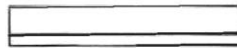
Home | Welcome Page | Film Type Selector | Market Locator | Product Locator

Show Printable Version

MYLAR® OWF

Product Description

Mylar® OWF is a co-extruded, one side amorphous, heat sealable polyester film designed to be used as an overwrap film. This film is suitable for use in contact with food.



← Clear PET Film
← Co-extruded APET heat seal layer

Approvals

Food Contact Status - Please contact your DuPont Teijin Films representative to receive the Regulatory Compliance documents

Typical Properties

Available Thickness [Gauge]
48; 80; 120

Property	Thickness	Value	Units	Test
BARRIER				
Gas Permeability - O ₂ , 24 hr	48	6.0	cc/100 in ²	ASTM D1434 77°F/75% RH/1 ATM
Gas Permeability - O ₂ , 24 hr	80	3.7	cc/100 in ²	ASTM D1434 77°F/75% RH/1 ATM
WVTR	48	2.8	g/100 in ² /day	ASTM F1249 38°C, 90% RH
WVTR	80	1.8	g/100 in ² /day	ASTM F1249 38°C, 90% RH
OPTICAL				
Haze	48	3.0	%	ASTM D1003
Haze	80	4.5	%	ASTM D1003
Haze	120	6.0	%	ASTM D1003
Total Light Transmission (TLT)	48	88.7	%	ASTM D1003
Total Light Transmission				



Datasheet

(TLT)	80	88.6	%	ASTM D1003
Total Light Transmission (TLT)	120	88.5	%	ASTM D1003
PHYSICAL				
C.O.F. (dynamic) A-B	48 - 80	0.5		ASTM D1894
Density	48 - 80	1.40	g/cc	
Elongation at Break MD	48 - 80	100	%	ASTM D882A
Elongation at Break TD	48 - 80	90	%	ASTM D882A
Tensile Strength MD	48 - 80	27	kpsi	ASTM D882A
Tensile Strength TD	48 - 80	29	kpsi	ASTM D882A
Yield (nominal)	48	42,200	in ² /lb	
Yield (nominal)	80	24,800	in ² /lb	
Yield (nominal)	120	16,500	in ² /lb	
THERMAL				
Heat Seal Temp. Range	48 - 80	220-400	°F	
Shrinkage MD (150°C)	48 - 80	1.25	%	Unrestrained @ 150°C/30 min
Shrinkage MD (150°C)	120	1.5	%	Unrestrained @ 150°C/30 min
Shrinkage TD (150°C)	48 - 80	0.30	%	Unrestrained @ 150°C/30 min
Shrinkage TD (150°C)	120	1.5	%	Unrestrained @ 150°C/30 min

Contact Info

DuPont Teijin Films U.S. Limited Partnership
 3600 Discovery Drive
 Chester, VA 23836 USA
 Tel: (800) 635-4639
 Fax: (804) 530-9867

Disclaimer

Note: These values are typical performance data for DuPont Teijin Films' polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DuPont Teijin Films makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

CAUTION: Do not use in medical applications involving permanent implantation in the human body (DuPont Teijin Films Medical Policy). For other medical applications, see the Medical Caution Statement. DuPont Teijin Films accepts no liability for use of its products in medical applications not reviewed and approved by DuPont Teijin Films or for product misuse. DuPont Teijin Films supplies products to an agreed specification and does not manufacture products designed specifically for medical end use.

<http://www.dupontteijinfilms.com/FilmEnterprise/Datasheet.asp?ID=597&Version=US>

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Datasheet

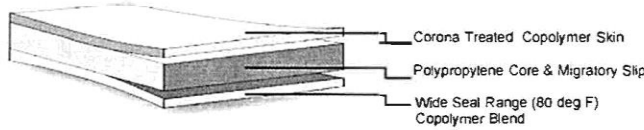
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Developed and Powered by Client Centered Technologies, Inc.



AMTOPP BOPP FILMS



Characteristics

- Wide Heat Seal Range
- Corona treated one side for ink adhesion and lamination bonds
- Superior Optical Properties
- Good Hot Tack
- Excellent Flatness

TECHNICAL DATA

PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUES								
			BA15	BA18	BA20	BA25	BA30	BA35	BA40	BA50	
THICKNESS	AmTopp	mil (μm)	0.59 (15)	0.70 (18)	0.79 (20)	0.99 (25)	1.19 (30)	1.38 (35)	1.56 (40)	1.96 (50)	
YIELD	AmTopp	in^2/lb (m^2/kg)	51,800 (73.6)	44,000 (62.5)	38,700 (55.0)	31,000 (44.0)	25,700 (36.5)	22,200 (31.6)	19,600 (27.9)	15,600 (22.2)	
HEAT SEAL INITIATION (UNTREATED SIDE)	1/2 sec. 30 PSI	Deg F (Deg C)	220 (104)								
HEAT SEAL INITIATION (TREATED SIDE)	1/2 sec. 30 PSI	Deg F (Deg C)	250 (121)								
TENSILE STRENGTH (MD)	ASTM D 882	lb/in^2 (kg/cm^2)	17,000 (1,200)								
TENSILE STRENGTH (TD)	ASTM D 882	lb/in^2 (kg/cm^2)	30,000 (2,100)								
ELONGATION AT BREAK (MD)	ASTMD 882	%	190								
ELONGATION AT BREAK (TD)	ASTM D 882	%	70								
COEFFICIENT OF FRICTION (NT/NT)	ASTM D 1894	Dynamic	0.20					0.25			
HAZE	ASTM D 1003	%	2					3			
GLOSS (45 DEG)	ASTMD 2457	GU	85								
WATER VAPOR TRANSMISSION RATE	ASTM F 1249 100° F (38°C), 90% RH	$\text{g}/100\text{in}^2/24\text{h}$ ($\text{g}/\text{m}^2/24\text{h}$)	0.50 (7.8)	0.45 (7.0)	0.40 (6.2)	0.35 (5.4)	0.30 (4.7)	0.25 (3.9)	0.20 (3.1)	0.15 (2.3)	
DIMENSIONAL STABILITY (MD)	266 °F, 5min (130° C, 5 min)	%	<5								
DIMENSIONAL STABILITY (TD)	266 °F, 5min (130° C, 5 min)	%	<3								
SURFACE ENERGY	ASTM D 2578	dyne/cm	38								

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Applications

- Designed for use in HFFS and VFFS packaging applications, either as a single web or laminated to itself or other substrates

The above properties and results obtained refer to the average values of laboratory testing carried out on sample AmTopp product. AmTopp does not guarantee testing accuracy and makes no guarantee of product performance, safety or suitability, either expressed or implied, when used alone or in combination with other products. AmTopp strongly urges users to undertake independent testing in order to verify the suitability of the product for whatever intended use. AmTopp assumes no responsibility for any damage or injury sustained as a result of the use of its products.



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