



TECHNICAL DATA SHEET provisional

Last Update Nov 2018

TP302

High Transparency Printable and Sealable Compostable Films

Intro

- Co-extruded high transparency films
- 100% compostable, certified as compostable in both industrial and home composting facilities
- Up to 30% bio based
- Excellent mechanical properties and high impact
- Excellent gloss and clarity
- Both sides sealable & printable

Applications

- Fresh produce, fresh bakery, bags, zipper bags, non-food, etc.
- Dry food, chilled food and frozen food
- For lamination- printing layer, sealing layer, body layer

Machinability

- Bag machines
- VFFS

Technical Properties – TP302 20-35μ

	ASTM	METRIC Units	US Units	20μ		25μ		30μ		35μ	
				METRIC Values	US Values	METRIC Values	US Values	METRIC Values	US Values	METRIC Values	US Values
Thickness		μ	mil	19.5-20.5	0.77-0.81	24.5-25.5	0.96-1	29-31	1.14-1.22	34-36	1.33-1.41
Density		g/cm ³	lb/in ³	1.25	0.045	1.25	0.045	1.25	0.045	1.25	0.045
Yield		m ² /kg	in ² /lb	40.6	28545	32.5	22850			23.2	16311
Tensile Strength@Break,MD	D882	MPa	PSI	20-35	2900-5800	20-35	2900-5076	20-35	2900-5076	20-35	2900-5076
Tensile Strength@Break,TD	D882	MPa	PSI	10-20	1450-2900	10-20	1450-2900	10-20	1450-2900	10-20	1450-2900
Tensile Elongation, MD	D882	%	%	>100	>100	>100	>100	>150	>150	>150	>150
Tensile Elongation, TD	D882	%	%	>450	>450	>400	>400	>400	>400	>400	>400
Haze	D1003	%	%	<8	<8	<10	<10	<11	<11	<13	<13
Light Transmittance	D1003	%	%	>88	>88	>88	>88	>87	>87	>86	>86
COF Kinetic Film/Film	D1894			0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4
COF Kinetic Seal/Seal	D1894			0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4
Sealing strength MD@100°C	F2029	N/25mm	lbf/in	>12	>3	>12	>3	>16	>4	>16	>4
Sealing temp. range (1 sec)	Internal	From (°C)	From (°F)	80	176	80	176	80	80	80	80
	Meth od	to (°C) -	to (°F) -	120	248	120	248	120	120	120	120



Technical Properties – TP302 40-80μ

	ASTM	METRIC Units	US Units	40μ		50μ		60μ		80μ	
				METRIC Values	US Values	METRIC Values	US Values	METRIC Values	US Values	METRIC Values	US Values
Thickness		μ	mil	39-41	1.53-1.61	49-51	1.9-2.0	58-61	2.3-2.4	78-82	3.1-3.2
Density		g/cm ³	lb/in ³	1.25	0.045	1.25	0.045	1.25	0.045	1.25	0.045
Yield		m ² /Kg	in ² /lb	20.3	14272	16.3	11460	13.5	9491	10.2	7171
Tensile Strength @ Break, MD	D882	MPa	PSI	20-35	2900-5076	20-30	2900-4350	20-30	2900-4350	20-30	2900-4350
Tensile Strength @ Break, TD	D882	MPa	PSI	10-20	1450-2900	10-20	1450-2900	10-20	1450-2900	10-20	1450-2900
Tensile Elongation, MD	D882	%	%	>180	>180	>200	>200	>250	>250	>300	>300
Tensile Elongation, TD	D882	%	%	>400	>400	>500	>500	>500	>500	>500	>500
Haze	D1003	%	%	<15	<15	<16.5	<16.5	<23.5	<23.5	<31	<31
Light Transmittance	D1003	%	%	>84	>84	>82	>82	>80	>80	>79	>79
COF Kinetic Film/Film	D1894			0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4
COF Kinetic Seal/Seal	D1894			0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4
Sealing strength MD, @ 100°C	F2029	N/25mm	lbf/in	>18	>4.5	>18	>4.5	>22	>5	>32	>7
Sealing temp. range (1 sec)	Internal	From (°C)	From (°F)	80	176	80	176	80	176	80	176
	Metho d	to (°C) -	to (°F) -	120	248	120	248	120	248	120	248

For any special requirements, please contact TIPA's technical team.

Environmental and Food Contact Features:

- TP302 is certified for Industrial Composting (EN13432, ASTM D6400).
- TP302 is certified for Home Composting (OK COMPOST HOME).
- TP302 is compliant for food packaging and storage at ambient, refrigerated and frozen temperatures. Food-contact compliance declarations are available upon request.

For specific requirements such as food-contact compliance declarations or compostability certification, please contact TIPA's technical team.





Storage Conditions:

- The product should be kept in a warehouse in ambient conditions: avoiding direct sun, rain, high humidity and other climate conditions.
- Recommended storage temperature is (20÷25) °C / (68÷77) °F.
- Rolls should be maintained in its original packaging until use. Opened packages should be used immediately.
- TP302 is suitable for use for 6 months from the date of delivery.

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