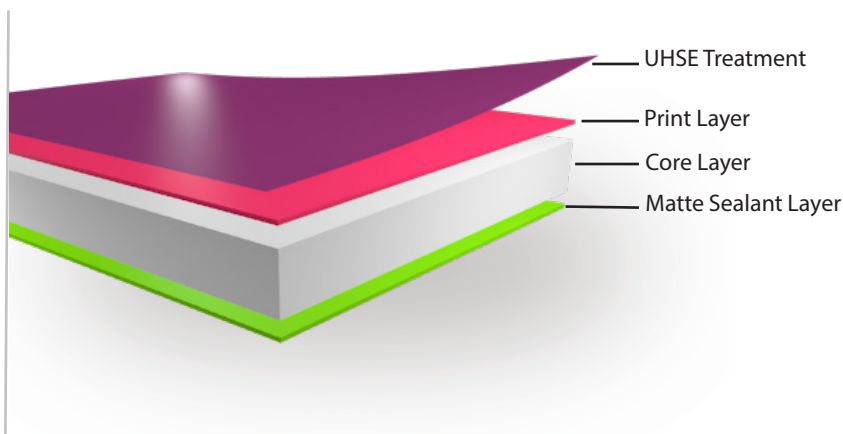


TORAYFAN FMS

Applications

- Confections
- Snacks
- Bakery
- Pet Food
- Ag/Chem
- Medical



Torayfan FMS

ONE SIDE UHSE TREATED,
ONE SIDE HEAT SEALABLE
MATTE BOPP FILM

Summary

Bi-Axially Oriented Polypropylene film with one side treated with Toray's Ultra High Surface Energy (UHSE) treatment, one side heat sealable with matte finish. Designed to be used as an outer web for food packaging, or in graphic applications where the matte surface reduces glare for easy viewing.

Technical Data *

PROPERTIES	METHOD	UNITS	TYPICAL VALUES		
Thickness		0.00001"	60	70	90
Nominal Yield		in ² /lb	51,500	44,000	33,800
Tensile Strength at Break	MD	ASTM D882	lb/in ²	21,500	21,500
	TD			45,500	45,500
Young's Modulus	MD	ASTM D882	lb/in ²	316,000	316,000
	TD			548,000	548,000
Elongation at Break	MD	ASTM D882	%	200	200
	TD			60	60
Heat Shrinkage (284°F for 15 minutes)	MD	ASTM D1204	%	8	8
	TD			5	5
COF (Sealant Side)		ASTM D1894	μ _s	0.47	0.47
			μ _D	0.36	0.36
Wetting Tension (Print Surface)		ASTM D2578	dyne/cm	42	42
Haze (1 sheet)		ASTM 1003	%	67	67
Gloss (20°) Matte Side		ASTM D2457	GU	12	12
Heat Seal Strength @ 250°F		1	g/in	310	310
SIT (>200g/in)		1	°F	235	235
MVTR - 100 °F, 90% RH		ASTM F1249	g/100in ² /day	0.53	0.45

1 Sentinel Sealer model 12 ASL, 0.5 sec, 20 psi. UPPER: flat, Teflon coated. LOWER: rubber with glass cloth, unheated

The product described is covered by one or more of the following patents or patents pending:
US 8431234.

Key Features

- Low gloss, matte sealant layer with glossy backside
- Low glare
- Good bond in adhesive and extrusion laminations
- Good ink adhesion with water based and solvent based inks
- Good print quality in Roto Gravure and Flexo printing

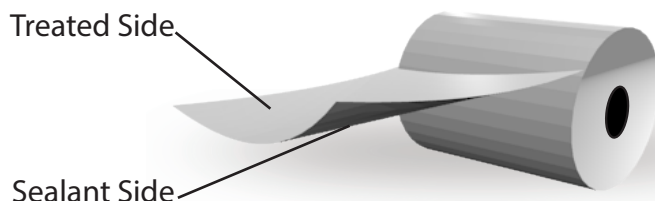
Similar Products

- F61W
- F62W
- F63W

Typical Structures

- FMS/ink/PE or ADH/PWX4
- FMS/ink/PE or ADH/PCFS
- FMS/ink/PE or ADH/PC1/PE
- FMS/ADH/Board

Winding Direction



* These values do not constitute specific binding specifications

DISCLAIMER: This information is believed to be correct as of the date of issue. Toray Plastics (America), Inc. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE AND TAKES NO RESPONSIBILITY REGARDING THE SUITABILITY OF THIS INFORMATION FOR THE USER'S INTENDED PURPOSES OR FOR THE CONSEQUENCE OF ITS USE. User is responsible for determining whether the Toray Plastics (America), Inc. product is fit for a particular purpose and suitable for user's method or use of application. Given the variety of factors that can affect the use and application of Toray Plastics (America), Inc. products, which are uniquely within the user's knowledge and control, it is essential that the user make its own tests to determine the safety and suitability of each Toray Plastics (America), Inc. product or product combination for its own purpose.

Torayfan® is a registered trademark of Toray Industries, Inc. for its range of bi-oriented Polypropylene Films (BOPP)