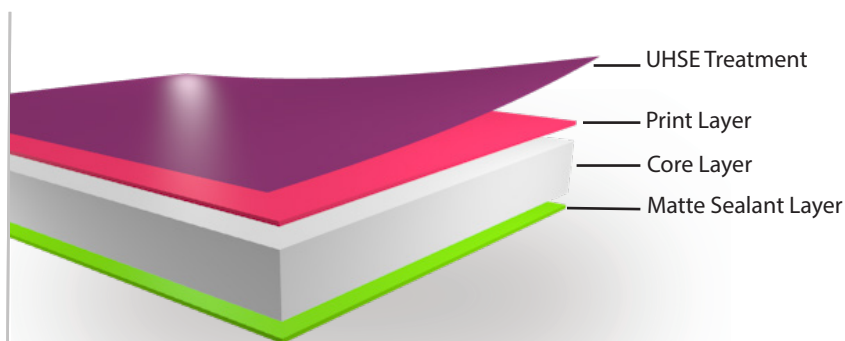


# TORAYFAN<sup>®</sup> FMS3

## Applications

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



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 uniform 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	-	micron	18	25	31
Nominal Yield	-	m <sup>2</sup> /kg	63	43	35
Tensile Strength at Break	MD	ASTM D882	MPa	148	148
	TD			314	314
Young's Modulus	MD	ASTM D882	MPa	2,180	2,180
	TD			3,780	3,780
Elongation at Break	MD	ASTM D882	%	200	200
	TD			60	60
Heat Shrinkage (140°C for 15 minutes)	MD	ASTM D1204	%	9.5	8
	TD			5	5
Coefficient of Friction (Sealant Side)	ASTM D1894		$\mu_s$	0.58	0.58
			$\mu_d$	0.36	0.36
Gloss (60°)	ASTM D2457	GU	17	17	17
Haze (1 sheet)	ASTM 1003	%	50	50	50
Wetting Tension	ASTM D2578	dyne/cm	42	42	42
Heat Seal Strength @ 121°C	1	g/25mm	310	310	310
Seal Initiation Temp (>200g/25mm)	1	°C	113	113	113
MVTR - 38°C, 90% RH	ASTM F1249	g/m <sup>2</sup> /day	7.8	4.8	4.8

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

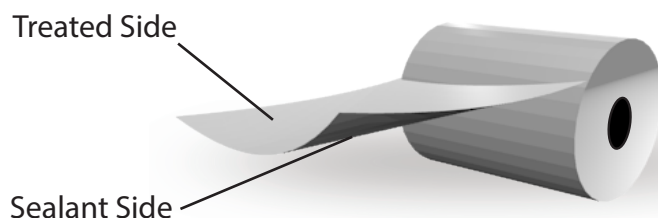
### Similar Products

- F61W
- F62W
- F63W
- F64W

### Typical Structures

- FMS3/ink/PE or ADH/PWX4
- FMS3/ink/PE or ADH/PCFS
- FMS3/ink/PE or ADH/PC1/PE
- FMS3/ADH/Board

### Winding Direction



### \* These values do not constitute specific binding specifications

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