

# UmaPET TXO/TXI

Polyethylene Terephthalate

Ester Industries Ltd.

## Message:

### KEY FEATURES

Uma PET TX grade film has one side functional surface which shows B - B surface high frictional properties and at the same time A - B surface shows normal friction which results in to smooth process ability and winding characteristics.

TX film shows excellent optical, mechanical and thermal properties.

### APPLICATIONS

TX film is recommended for packaging of big bulk packages by keeping functional surface out side to avoid slippage while storage and transportation. Examples of such bags are Pet food bags, rice bags and other end products packaging which requires prevention of slippage.

TX complies with FDA regulation 21CFR177.1630 sections (f) and (g) for direct and indirect food contact.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High Friction		
	Opticals		
Uses	Bags		
	Film		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1630 Sections (f) & (g)		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D1204
Flow : 150°C, 30 min, 0.0120 mm	2.5	%	
Across Flow : 150°C, 30 min, 0.0120 mm	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction <sup>1</sup>			ASTM D1894
vs. Itself - Dynamic	0.45		
vs. Itself - Static	0.50		
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	12	µm	
Film Thickness - Recommended / Available	12 µm		
Tensile Strength			ASTM D882
MD : Break, 12 µm	206	MPa	
TD : Break, 12 µm	216	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 µm	100	%	
TD : Break, 12 µm	90	%	

Yield (12.0 μm)	59.5	m <sup>2</sup> /kg	Internal Method
Wetting Tension			ASTM D2578
12.0 μm	42	dyne/cm	
Plain side : 12.0 μm	44	dyne/cm	
Optical	Nominal Value	Unit	Test Method
Haze (12.0 μm)	2.5	%	ASTM D1003
NOTE			
1.	12 μm		

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