

# TORAY

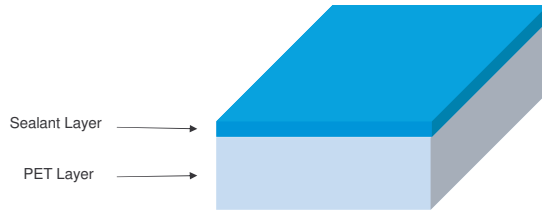
## Innovation by Chemistry

### Lumirror® XL5

### Technical Data Sheet

Transparent polyester lidding film for peelable seals to all typical rigid substrates used in today's packaging.

#### STRUCTURE



#### KEY FEATURES

- Universal peelable seals to CPET, APET, APET paperboard, HDPE, PP, HIPS, PETG, PVC, aluminum foil, glass, blended trays, cups, bottles, and many others.
- Excellent broad seal range and seals through food residue.
- Peelable hot or cold.
- Clean peelable seals, no sealant residue.
- Solvent free process, ensures the films are odor free and contamination free.
- This film complies with 21 CFR 177.1210 and may be used as a lid or closure for containers with all food types, except for beverages exceeding 50% alcohol by volume, under 21 CFR 176.170(c), Table 2 Conditions of Use A through H. This film is suitable for cooking and/or reheating frozen foods in a conventional or MW oven at temperatures not exceeding 350°F for up to 30 minutes.

#### APPLICATIONS

- Lidding
- Monoweb

#### TECHNICAL DATA

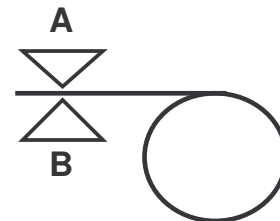
PROPERTIES		METHOD	UNITS	TYPICAL VALUES		
Thickness		-	0.00001"	92	118	164
Nominal Yield		-	in <sup>2</sup> /lb	27,100	20,600	14,200
Tensile Strength at Break	MD	ASTM D882	lb/in <sup>2</sup>	15,600	16,500	20,100
	TD			14,100	14,700	21,200
Young's Modulus	MD	ASTM D882	lb/in <sup>2</sup>	284500	278800	375500
	TD			284500	277400	409600
Elongation at Break	MD	ASTM D882	%	90	94	141
	TD			103	97	122
Heat Shrinkage (150 °C for 30 minutes)	MD	ASTM D1204	%	2.2	2.2	1.8
	TD			0.8	0.9	0.5
Haze (1 sheet)		ASTM 1003	%	16.0	13.0	15.0
Seal Initiation Temp		Toray Method	°F	265	265	265
MVTR - 100 °F, 90% RH		ASTM F1249	g/100in <sup>2</sup> /day	2.30	1.90	1.20
O <sub>2</sub> Barrier 73 °F		ASTM D3985	cc/100in <sup>2</sup> /day	11.00	8.00	4.00

#### CONTACT

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#### WINDING DIRECTION

- A = Plain Surface
- B = Sealable Surface



LUM PS-0116 Rev 9

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Lumirror® is a registered trademark of Toray Industries, Inc. for its range of Polyester Films based on Polyethylene Terephthalate (PET).  
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