

# TORAY

Toray Plastics Europe SA

P O L Y E S T E R F I L M

## Lumirror® 60.01

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

PRODUCT TECHNICAL DATA SHEET

### DESCRIPTION

Lumirror® 60.01 is a hazy, high roughness polyester film.

**NOMINAL THICKNESS** 12 - 15 - 18 - 23 - 30 - 36 - 50 - 75 - 100 - 125 microns

### TYPICAL VALUES

PROPERTY	Unit	Test method	12	15	18	23	30	36	50	75	100	125
<b>YIELD</b>												
. Unit weight	g/m <sup>2</sup>		16.8	20.6	25.2	32.2	42	50.4	70	105	140	175
. Area yield	m <sup>2</sup> /Kg		59.7	48.5	39.7	31	23.8	19.8	14.3	9.5	7.1	5.7
<b>OPTICAL PROPERTIES</b>												
. GARDNER Haze	%	ASTM D 1003	3.5	3.8	4	4.5	8	9	10	13	20	25
<b>MECHANICAL PROPERTIES</b>												
. Breaking strength MD	daN/mm <sup>2</sup>	ASTM D 882	21	21	21	21	18	18	19	20	20	19
. Elongation at break MD	%		130	130	130	130	140	150	150	150	150	150
<b>SHRINKAGE</b>												
. 150°C 30mn MD	%	Internal method	1.5	1.5	1.5	1.5	1.1	1.1	1.2	1.2	1.2	1.2
. 150°C 30mn TD	%		0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
<b>SURFACE ROUGHNESS</b>												
. Rz roughness	nm	DIN 4768	400	350	350	350	350	400	400	400	400	400

### KEY FEATURES

- High dimensional stability
- Good flatness
- Excellent machinability due to high roughness surface characteristics
- Certified UL746B (105°C) for all thickness and VTM2 from 50µm

INNOVATES FOR A BETTER FUTURE

# Lumirror® 60.01

## APPLICATIONS - CONVERSION

Suitable for most applications requiring excellent machinability : **Electrical insulation, mould release, printing, siliconizing, adhesive release coating, . . .**

Suitable for **printing or coating** using resins suitable for polyester films.

**Excellent base film for converting** due to its **high roughness** surface characteristics.

Lumirror 60.01 has been tested and certified under **UL746B** and **VTM-2** (from 50µm) for electrical applications (105°C)

## FOOD CONTACT

**Lumirror® 60.01** complies with the legal requirements in FRANCE, EUROPE, USA. (Please refer to the 'Food Contact Data Sheet').

## STANDARD PRESENTATION OF THE ROLLS

On core with internal diameter of 152.8mm.

For all presentations, minimum width : 280mm maximum width : see table.

Roll presentation						
Thickness (micron)	4L		6L		8L	
	Length (m)	Maximum width (mm)	Length (m)	Maximum width (mm)	Length (m)	Maximum width (mm)
12	12 000	2000	18 000	2000	24 000	2000
15	10 000	2000	15 000	2000	20 000	2000
18	8 000	2000	12 000	2000	16 000	2000
23	6 600	2000	9 900	2000	13 200	2000
30	5 000	2000	7 500	2000	10 000	2000
36	4 200	2000	6 300	2000	8 400	2000
50	3 000	2000	4 500	2000	6 000	2000
75	2 000	2000	3 000	2000	4 000	2000
100	1 500	2000	2 250	2000	3 000	2000
125	1200	2000	1800	2000	2400	2000

### Packing presentation :

Returnable packaging type : suspended roll, wooden or plastic flanges and pallets

**Please contact us for :** - any other presentation ( width, length, returnable packaging)  
- any other information about typical values, measuring conditions, tolerances, delivered certificates.

The information in this leaflet is not binding ; it is based on the numerous tests and trials we have carried out in our laboratories. Deviations from the results thus obtained can therefore be experienced depending on the actual conditions of use. In accordance with the industrial practice, they are issued with the above reservations.

TPEu - 03 2004

**TORAY**  
Toray Plastics Europe SA

ST MAURICE DE BEYNOST - 01708 MIRIBEL CEDEX  
TEL.: (33) 04 72 88 16 00 - FAX : (33) 04 72 88 16 60  
www.toray.fr

