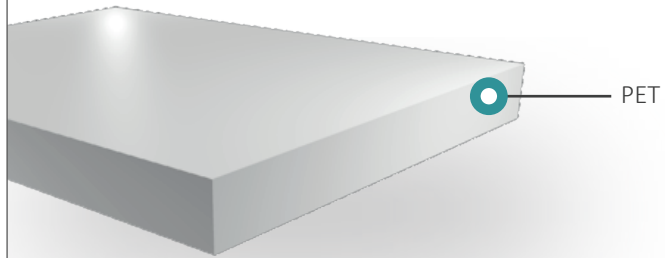


# Lumirror® 60.01

## Application

- Electrical insulation
  - Siliconizing
  - Mould release
- Printing & coating
  - Security



HAZY PET FILM WITH  
HIGH ROUGHNESS

## Benefits

- High dimensional stability
- Good flatness
- Excellent machinability due to high roughness
- Certified UL 746 B (105°C) for all thickness

## Typical Values *(These values do not constitute binding specifications)*

Properties	Test Method	Unit	4µm	4.5 µm	6 µm	8 µm	10 µm	12 µm	15 µm	18 µm	19 µm	23 µm
<b>YIELD</b>												
Unit Weight		g/m <sup>2</sup>	5.6	6.3	8.4	11.2	14.0	16.8	20.6	25.2	26.6	32.2
Area Yield		m <sup>2</sup> /kg	178.6	158.7	119	89.3	71.4	59.5	48.5	39.7	37.6	31.1
<b>MECHANICAL</b>												
Tensile Strength MD	ASTM D 882	daN/mm <sup>2</sup>	29	27	27	20	21	19	19	20	19	20
Elongation at Break MD		%	78	80	88	100	115	125	120	110	130	130
<b>THERMAL</b>												
Shrinkage 150°C 30mn MD	Internal Method	%	2.5	2.4	2.3	1.7	2.0	1.4	1.4	1.7	1.2	1.5
Shrinkage 150°C 30mn TD			1.0	0.6	0.7	0.6	0.5	0.2	0.3	0.1	0.2	0.1
<b>OPTICAL</b>												
Gardner Haze	ASTM D1003	%	7.2	7.0	3.0	3.5	3.5	3.2	4.0	4.7	4.5	5.0
<b>SURFACE</b>												
Roughness Ra	Internal Method	nm	132	100	55	40	30	30	31	30	30	30
Roughness Rz			1010	900	490	400	350	320	330	330	320	350
<b>ELECTRICAL</b>												
Break down voltage	JIS C2151	kV	*	*	2.5	2.8	3.0	3.4	4.6	*	5.1	7.9
Volume resistivity	ASTM D257	Ω	*	*	*	*	*	*	*	*	*	*

Properties	Test Method	Unit	30 µm	36 µm	50 µm	75 µm	100 µm	125 µm	190 µm	250 µm
<b>YIELD</b>										
Unit Weight		g/m <sup>2</sup>	42.0	50.4	70.0	105.0	140.0	175.0	266.0	350.0
Area Yield		m <sup>2</sup> /kg	23.8	19.8	14.3	9.5	7.1	5.7	3.8	2.9
<b>MECHANICAL</b>										
Tensile Strength MD	ASTM D 882	daN/mm <sup>2</sup>	20	21	20	20	19	19	18	16
Elongation at Break MD		%	130	130	130	145	150	150	170	190
<b>THERMAL</b>										
Shrinkage 150°C 30mn MD	Internal Method	%	1.5	1.5	1.8	1.2	1.0	1.0	1.0	0.8
Shrinkage 150°C 30mn TD			-0.2	0.3	0.3	0.25	0.25	0.25	0.3	0.2
<b>OPTICAL</b>										
Gardner Haze	ASTM D1003	%	7.0	8.0	9.5	11.0	14.0	17.0	22.0	30.0
<b>SURFACE</b>										
Roughness Ra	Internal Method	nm	30	30	30	35	35	36	36	36
Roughness Rz			350	350	400	450	550	580	600	730
<b>ELECTRICAL</b>										
Break down voltage	JIS C2151	kV	8.3	9	10.8	13.3	15.4	16.9	22.5	27
Volume resistivity	ASTM D257	Ω	*	*	*	*	*	*	3*10 <sup>18</sup>	1.6*10 <sup>18</sup>

## Regulation

Lumirror® 60.01 complies with European applicable requirements for food contact applications. For Toray's certification concerning specific applications with each product, please refer to the 'Declaration of Compliance'.

## Presentation of the rolls

**Roll packaging:** The rolls are suspended on standard paper core with internal diameter of 152.8mm. For all presentation, minimum roll width = 340mm and maximum roll width = 2100mm.

**Returnable packaging:** Wooden flanges, plastic flanges and pallets are returnable.

## Please contact us for...

- Any other presentation (width, length, core)
- Process for returnable packaging
- Any other information about typical values, measuring conditions, tolerances, deliveries...

Lumirror® is a registered trademark of Toray Films Europe SAS - TFE September 2020

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