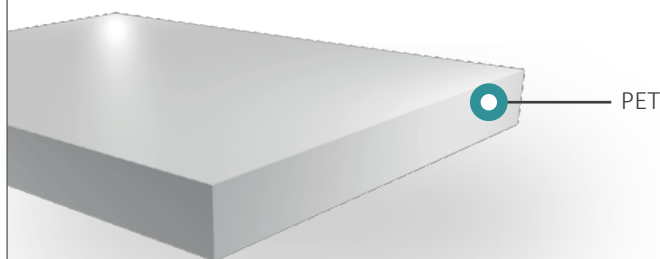


Lumirror® 60.01

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)
- UL recognition : CTI II (400V)

Toray Films Europe SAS,
Place d'Arménie,
01700 Saint-Maurice-de-Beynost, FRANCE

To access Toray Films Europe's **certifications list**, please visit
www.torayfilms.eu/en/certifications

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

Properties	Test Method	Unit	4.5 μm	6 μm	8 μm	12 μm	15 μm	18 μm	19 μm	23 μm
YIELD										
Unit Weight		g/m ²	6.3	8.4	11.2	16.8	20.6	25.2	26.6	32.2
Area Yield		m ² /kg	158.7	119	89.3	59.5	48.5	39.7	37.6	31.1
MECHANICAL										
Tensile Strength MD	ASTM D 882	daN/mm ²	27	27	20	19	19	20	19	20
Tensile Strength TD			22	25	20	20	22	22	22	23
Elongation at Break MD		%	80	90	100	125	120	110	130	130
Elongation at Break TD			85	95	100	95	85	90	90	95
THERMAL										
Shrinkage 150°C 30mn MD	Internal Method	%	2.4	2.3	1.7	1.4	1.4	1.7	1.2	1.5
Shrinkage 150°C 30mn TD			0.6	0.7	0.6	0.2	0.3	0.1	0.2	0.1
OPTICAL										
Gardner Haze	ASTM D1003	%	7.0	3.0	3.5	3.2	4.0	4.7	4.5	5.0
SURFACE										
Roughness Ra	Internal Method	nm	100	55	40	30	3	30	30	30
Roughness Rz			900	500	400	320	330	330	320	350
ELECTRICAL										
Break down voltage	JIS C2151	kV	*	2.5	2.8	3.4	4.6	*	5.1	7.9
Volume resistivity	ASTM D257	Ω	*	*	*	*	*	*	*	*

Properties	Test Method	Unit	29 μm	30 μm	36 μm	50 μm	75 μm	100 μm	125 μm	190 μm	250 μm
YIELD											
Unit Weight		g/m²	40.6	42.0	50.4	70.0	105.0	140.0	175.0	266.0	350.0
Area Yield		m²/kg	24.6	23.8	19.8	14.3	9.5	7.1	5.7	3.8	2.9
MECHANICAL											
Tensile Strength MD	ASTM D 882	daN/mm²	20	20	21	20	20	19	19	18	16
Tensile Strength TD			23	23	23	24	25	20	20	20	20
Elongation at Break MD		%	130	130	130	130	145	150	150	170	190
Elongation at Break TD			100	100	100	105	100	110	115	120	130
THERMAL											
Shrinkage 150°C 30mn MD	Internal Method	%	1.5	1.5	1.5	1.8	1.2	1.0	1.0	1.0	0.8
Shrinkage 150°C 30mn TD			-0.2	-0.2	0.3	0.3	0.25	0.25	0.25	0.3	0.2
OPTICAL											
Gardner Haze	ASTM D1003	%	7.0	7.0	8.0	9.5	11.0	14.0	17.0	22.0	30.0
SURFACE											
Roughness Ra	Internal Method	nm	30	30	30	30	35	35	36	36	36
Roughness Rz			350	350	350	400	450	550	580	600	730
ELECTRICAL											
Break down voltage	JIS C2151	kV	8.3	8.3	9	10.8	13.3	15.4	16.9	22.5	27
Volume resistivity	ASTM D257	Ω	*	*	*	*	*	*	*	3*10¹⁸	1.6*10¹⁸

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 March 2023

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