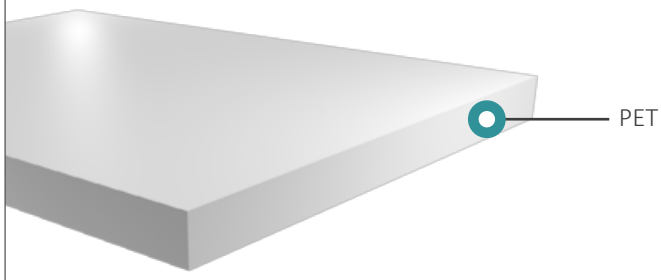
PRODUCT DATA SHEET

TORAY
Toray Films Europe

Lumirror™ 60.01

Application

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



Lumirror™ 60.01

HAZY PET FILM WITH HIGH ROUGHNESS

Benefits

- High dimensional stability
- Good flatness
- Excellent machinability due to high roughness

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/m²	6.3	8.4	11.2	16.8	20.6	25.2	26.6	32.2
Area Yield		m²/kg	158.7	119	89.3	59.5	48.5	39.7	37.6	31.1
MECHANICAL										
Tensile Strength MD	ASTM D 882	daN/mm²	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	%	2.4	2.3	1.7	1.4	1.4	1.7	1.2	1.5
Shrinkage 150°C 30mn TD	Method		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	nm	100	55	40	30	30	30	30	30
Roughness Rz	Method		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	17.5	16
Tensile Strength TD			23	23	23	24	25	20	20	21	20
Elongation at Break MD		%	130	130	130	130	145	150	150	175	190
Elongation at Break TD			100	100	100	105	100	110	115	130	130
THERMAL											
Shrinkage 150°C 30mn MD	Internal	%	1.5	1.5	1.5	1.8	1.2	1.0	1.0	1.0	0.8
Shrinkage 150°C 30mn TD	Method		-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	nm	30	30	30	30	35	35	36	36	36
Roughness Rz	Method		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*10^18	1.6*10^18

Regulation

Lumirror™ 60.01 complies with the applicable European requirements for food contact applications up to 75 µm. For compliance confirmation above 75 µm, please contact us. For product-specific certification, please refer to the relevant 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 October 2026

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