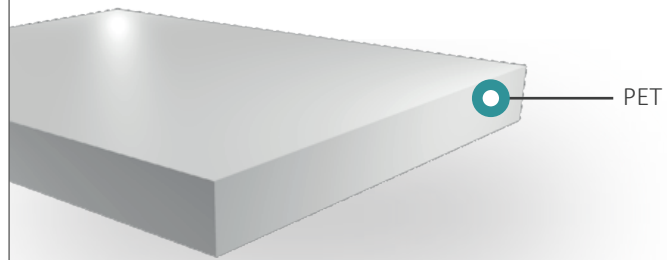


# Lumirror® F53

## Application

- Thermal Transfer Ribbon (TTR)



PLAIN PET FILM DESIGNED FOR  
THERMAL TRANSFER RIBBONS

## Benefits

- Adapted mechanical and thermal properties dedicated to the thermal transfer use
- Excellent thickness regularity and flatness
- Microroughness and thickness uniformity

**Toray Films Europe SAS,**  
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To access Toray Films Europe's **certifications list**, please visit  
[www.torayfilms.eu/en/certifications](http://www.torayfilms.eu/en/certifications)

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

Properties	Test Method	Unit	4µm	4.5 µm	5.7 µm
<b>YIELD</b>					
Unit Weight		g/m <sup>2</sup>	5.6	6.3	8.0
Area Yield		m <sup>2</sup> /kg	178.6	158.7	125.3
<b>MECHANICAL</b>					
Tensile Strength MD	ASTM D 882	daN/mm <sup>2</sup>	29	29	29
Tensile Strength TD			25	25	26
Elongation at Break MD	ASTM D 882	%	80	80	92
Elongation at Break TD			80	80	85
<b>THERMAL</b>					
Shrinkage 150°C 30mn MD	Internal Method	%	2.5	2.3	2.5
Shrinkage 150°C 30mn TD			1.0	0.9	1.0
<b>OPTICAL</b>					
Gardner Haze	ASTM D 1003	%	9	9	10
<b>SURFACE</b>					
Roughness Ra	Internal Method	nm	135	150	165
Roughness Rz		nm	1000	1050	1100

## Regulation

Lumirror® F53 does **not** comply 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

**DISCLAIMER:** This leaflet is provided for informational purpose only and is not binding, nor can it constitute specifications to the buyer. The information contained in this document is based on 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. This document does not provide any guarantee with regard to compliance of our product with the typical values indicated, nor does it provide any guarantee as the suitability of our products for any particular use.