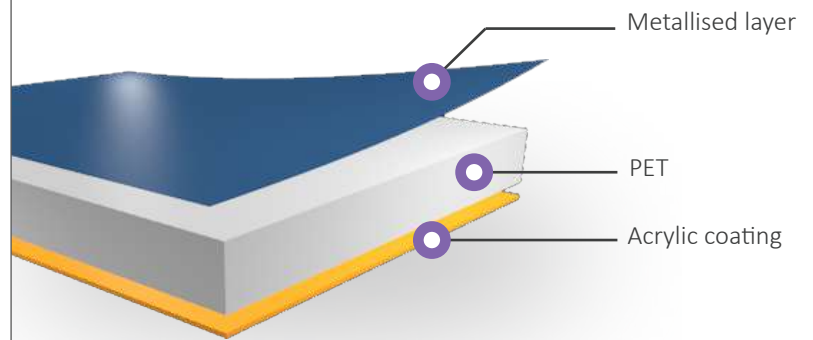


# Claryl<sup>®</sup> MP MP-O

## Application

- High quality packaging
- Frozen food
- Surface printed laminate



METALLISED PET FILM  
WITH ONE COATED SIDE

## Benefits

- Opaque gas barrier film
- Improved ink adhesion on treated side
- High protection against natural and UV light
- High thermal stability and good machinability

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](http://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	19 µm
<b>YIELD</b>							
Unit Weight		g/m <sup>2</sup>	6.3	8.4	11.2	16.8	26.6
Area Yield		m <sup>2</sup> /kg	158.7	119.1	89.3	59.5	37.6
<b>MECHANICAL</b>							
Tensile Strength MD	ASTM D 882	daN/mm <sup>2</sup>	24	24	24	19	18
Tensile Strength TD			21	21	21	21	21
Elongation at Break MD	ASTM D 882	%	75	80	90	100	120
Elongation at Break TD			75	80	85	80	85
<b>THERMAL</b>							
Shrinkage 150°C 30min MD	Internal Method	%	1.5	1.9	2.5	1.6	1.2
Shrinkage 150°C 30min TD			-0.2	0.3	1	0.5	0.5
<b>OPTICAL</b>							
Optical density			1.8	2.2	2.2	2.2	2.2
<b>BARRIER</b>							
OTR. 50% HR. 23°C	ASTM F1927	cm <sup>3</sup> /m <sup>2</sup> per day	2	2	2	0.6	0.6
MVTR. 90% HR. 38°C	ASTM F1249	g/m <sup>2</sup> per day	1.5	1.5	1.0	1.0	1.0
<b>SURFACE</b>							
Metal adhesion / Heat seal test	Internal Method	N/38mm	1	1	1	1	1

## Regulation

Claryl® MP and MP-O 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. The metallised side is identified on the labels:



## Please contact us for...

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

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