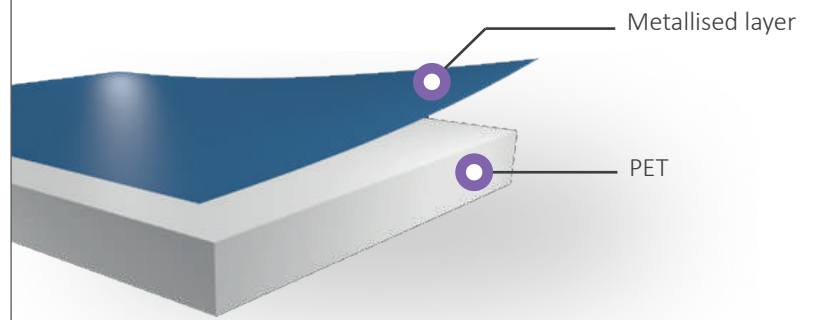


Claryl[®] M-O

Application

- Flexible packaging requiring barrier properties



METALLISED PET FILM

Benefits

- Good aroma barrier
- Opaque gas barrier film
- 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

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

Properties	Test Method	Unit	4.5 µm	6 µm	8 µm	12 µm	19 µm	23 µm	36 µm
YIELD									
Unit Weight		g/m ²	6.3	8.4	11.2	16.8	26.6	32.2	50.4
Area Yield		m ² /kg	158.7	119	89.3	59.5	37.6	31.1	19.8
MECHANICAL									
Tensile Strength MD	ASTM D 882	daN/mm ²	31	25	20	20	18	19	21
Tensile Strength TD			22	22	21	22	20	20	24
Elongation at Break MD	ASTM D 882	%	75	82	110	130	119	125	130
Elongation at Break TD			98	98	104	85	116	125	106
THERMAL									
Shrinkage 150°C 30mn MD	Internal Method	%	2.4	2	1.7	1.5	1.6	1.5	1.4
Shrinkage 150°C 30mn TD			0.6	0.3	0.6	0.3	0.2	0.3	0.3
OPTICAL									
Optical density			1.7	2.0	2.0	2.2	2.2	2.1	2.1
BARRIER									
OTR. 50% HR. 23°C	ASTM F1927	cm ³ /m ² per day	0.9	0.9	0.6	0.6	0.7	0.7	0.7
MVTR. 90% HR. 38°C	ASTM F1249	g/m ² per day	3.8	1.4	1.0	1.0	1.0	1.0	1.0
SURFACE									
Metal adhesion / Heat seal test	Internal Method	N/38mm	1	1	1	1	1	1	1

Regulation

Claryl® M and M-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...

Lumirror® is a registered trademark of Toray Films Europe SAS - TFE March 2023

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