

PRODUCT DESCRIPTION

Mylar® OL2 is a biaxially orientated polyester film with a thicker amorphous polyester heat seal layer than Mylar® OL. Mylar® OL2 provides a strong peelable seal to a wide range of polar materials including itself, APET, CPET, PETG, polyester coated board, polycarbonate and PVC, but does not seal to polyolefines, such as polypropylene, polyethylene and polystyrene. DuPont Teijin Films offers another family of lidding films (Mylar® RL) for sealing to these substrates. Mylar® OL2 is designed to be self venting and dual ovenable (conventional and microwave). It is available in thicknesses of 15, 26 and 39 micron.



TYPICAL APPLICATIONS

Mylar® OL2 can be used as a single web (Fig. 1) or as part of a laminate (Fig. 2) in lidding applications, for example ready meals, and other applications where a strong seal but relatively easy opening is important.

Fig 1.

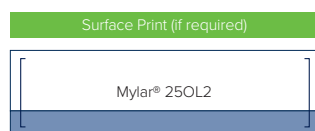
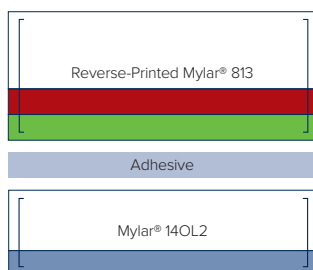


Fig 2.



PRACTICAL INFORMATION

Mylar® OL2 can be sealed at a wide range of temperatures between 140°C and 200°C. The film seals instantly, but full seal strength is reached one hour after sealing. Whilst Mylar® OL2 typically gives a strong peelable seal performance, thinner grades, if used as a single web, will give film tear on opening. Mylar® OL2 can withstand freezer temperatures down to -70°C and food can be heated/cooked in this film at typical heating conditions of 220°C for 30 minutes. The sealable surface is normally wound on the inside of the reel.

SPECIAL FEATURES AVAILABLE

Printability: Mylar® OL2 is available with a corona treatment on the non-seal side to give improved adhesion to typical packaging inks (Mylar® OL2T). However, corona treatment does deteriorate with time and in-line treatment during printing and laminating is still required.

Anti-fog: Mylar OL2 is available with anti-fog on the sealable surface. (Mylar® OLAF (not available in 14µm). This is specifically designed to minimise 'fog' during freezing, chilling and cooking operations, and also to aid clarity during packaging of 'breathable' products, like fresh vegetables. The Mylar® OLAF film is also available with corona treatment (Mylar® OLAF T).

FOOD CONTACT ADVICE

Mylar® OL2 is compliant with European Union food contact legislation (90/128/EC and amendments). For individual country and specific application information please contact your DuPont Teijin Films representative. All gauges of Mylar® OL2 comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene phthalate polymers. This regulation describes films which may be safely used in contact with all types of food excluding alcoholic beverages. Uncoated films such as Mylar® OL2 can be used to contain foods during oven cooking or oven baking at temperatures above 121°C (250 °F).

DISPOSAL

Disposal of Mylar® OL2 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form it can be recycled into polyester fibre. In most circumstances, once Mylar® OL2 has been laminated, coated, printed or metallised, incineration with Energy Recovery is the most environmentally efficient recovery route. Mylar® OL2 can also be burned in an incinerator with normal refuse or can be buried as a relatively inert material in a landfill. The disposal method should comply with appropriate local and country regulations.

TYPICAL PROPERTIES

PROPERTIES	UNIT	TYPICAL VALUES			TEST METHOD
		14OL2	25OL2	40OL2	
General					
Target Thickness	Micron	15	26	39	..
Area Yield	M ² /KG	49	28	18	..
Unit Weight	G/M ²	20	36	54	..
Oxygen Permeability	cm ³ /m ² /day/atm	140	75	45	Oxtran 23°C, 60/70% RH
Water Vapour Transmission Rate	g/m ² /day	43	20	14	Lyssy 38°C, 90% RH
Mechanical					
Tensile strength at break	MPa	MD 180 TD 220	MD 180 TD 220	MD 180 TD 220	ASTM D882
Elongation at break	%	MD 120 TD 80	MD 120 TD 80	MD 120 TD 80	ASTM D882
Thermal					
Shrinkage	%	MD 4 TD 1	MD 4 TD 1	MD 4 TD 1	190°C for 5 mins
Upper melt temperature	°C	255-260	255-260	255-260	ASTM E794-85
Heat seal strength:					
Seal to Seal	g/25mm	650	1100	1300	140°C/40psi/1sec
Seal to APET/CPET Co-ex tray	g/25mm	900	900	900	180°C/80psi/1sec

STANDARD PUT-UPS

REEL DIAMETER IN MM		APPROXIMATE REEL LENGTH IN METRES		
Core ID	Reel OD	14 OL2	25OL2	40OL2
76	240	2625	1500	1000
76	330	5300	3025	2000
152	280	2650	1500	1000
152	380	5175	2975	1950
152	460	9525	5450	3600

Reel Length rounded to nearest 25 metres.

Maximum available slit width: 1372 mm