WRAPID
Heat Sealant Films

Mylar® 850
TECHNICAL DATA SHEET

DuPont Teijin Films™

PRODUCT DESCRIPTION

Mylar® 850 is a co-extruded, biaxially oriented polyester (PET) film with an amorphous polyester heat seal layer on one side. It is designed to give a permanent seal to a wide range of materials. Mylar® 850 can be heat sealed to itself and seals well to APET/CPET trays and APET coated board. It also seals to PVdC, PVC, paper and aluminium. The non heat-sealable side of Mylar® 850 has the properties of a standard polyester film.

TYPICAL APPLICATIONS

Mylar® 850 can be used on its own as a single web or as part of a laminate in a wide range of lidding applications. It is an excellent film for lidding APET/CPET trays. Such packages are often used for dual ovenable ready meals. Mylar® 850 can also be used on Form-Fill-Seal machines and for blister packs; its excellent aroma barrier properties make it ideal for packaging aromatic products such as air fresheners and spices.

GENERAL INFORMATION

Added Benefits from Related Films: Handleability - Mylar® 852 heat seal layer has an improved slip performance. Printability – Mylar® 853 gives improved adhesion to a range of widely used inks through chemical treatment on the non heat seal side. Antifog – Mylar® 850AF has antifog properties and excellent seal performance. As per Article 3(3) of the REACH regulation (EC) No 1907/2006 Mylar® 850 film is classified as an article. There are no substances intended to be released from the above film under normal, reasonably foreseeable conditions of use, as defined by Article 7(1).

FOOD CONTACT ADVICE

Mylar® 850 has been assessed with respect to Food Contact Legislation.

PROPERTIES	UNIT	TYPICAL VALUES			TEST METHOD
General		**15**	**20**	**30**	
Target Thickness	Micron	15	20	30	DTF Method
Area Yield	M^2/KG	48.3	36.2	24.1	DTF Method
Unit Weight	G/M^2	20.7	27.6	41.4	DTF Method
Oxygen Permeability	$cm^3/m^2/day/atm$	112	84	56	Oxtran 23°C,60/70% RH
Water Vapour Transmission Rate	$g/m^2/day$	26	19	13	Lyssy 38°C,90% RH
Mechanical					
Coefficient of thermal expansion (between 20 and 50°C)	ppm/K	MD 35 TD 28	MD 35 TD 28	MD 35 TD 28	Based on ASTM E381-06
Shrinkage (5 mins at 190°C)	%	MD 3 TD 3	MD 3 TD 3	MD 3 TD 3	Based on ASTM D1204-78
Upper Melt Temperature (non heat sealable layer)	°C	255-260	255-260	255-260	Based on ASTM E794-85
Heat Seal Strength:					
Seal to Seal	g/25mm	750	800	1000	140°C,40psi,1sec
Heat Seal to APET/CPET tray	g/25mm	>1000	>1000	>1000	140°C,40psi,1sec
Sealing Temperature Range	°C		140-220		
Optical					
Haze	%	4	5	7	Based on ASTM D1003-77
Total Luminous Transmission	%	88	88	88	Based on ASTM D1003-77
Thermal					
Tensile Strength at Break	kgf/mm^2	MD 16.5 TD 23	MD 16.5 TD 23	MD 16.5 TD 23	Based on ASTM D882-83
Elongation at Break	%	MD 120 TD 80	MD 120 TD 80	MD 120 TD 80	Based on ASTM D882-83
Slip (coefficient of static friction)	Seal/Seal Plain/Plain	0.8-1 0.4	0.8-1 0.4	0.8-1 0.4	Based on ASTM D1894-88

STANDARD PUT-UPS

Mylar® 850 can be supplied at 1600mm master rolls, or as slit reels 400-2550mm wide on 152mm ID flush or protruding cores. Master rolls are popular for Distributor customers. Chartable width is 1600mm

DISPOSAL ADVICE

Disposal of Mylar® does not present special disposal problems. Where waste occurs in a clean, uncontaminated form it can be recycled. In most circumstances, once Mylar® has been laminated, coated, printed or metallised, incineration with Energy Recovery is the most environmentally efficient recovery route. Mylar® 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.

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