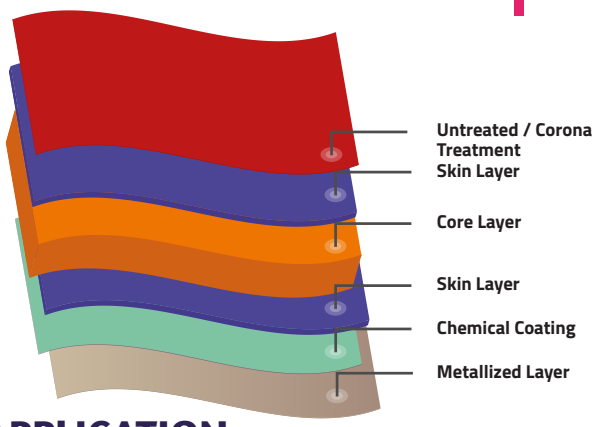
F-ISC-M

METALLIZED CHEMICAL ISOTROPIC FILM

Base polyester is one side Untreated or Corona Treated with the other side being Chemical Coated. F-ISC-M is a metallized BOPET film having improved barrier properties supported with excellent lidding properties. The film is widely accepted for various types of lidding applications and is available in optical densities ranging from 2.2 to 2.8. The metallization is available on the Chemical Treated surface (MC). The bond strength between the metal and the film is a minimum of 500gm/25mm when metallized on the Chemical Coated surface.

FILM STRUCTURE



KEY FEATURES:

- Improved barrier properties
- Balanced mechanical properties in all directions
- Excellent machinability & handling properties

APPLICATION:

- Lidding
- Dairy products
- Paper laminated for lidding

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
OPTICAL DENSITY*** (TOLERANCE: +/- 5%) (***Customer to specify the OD value as per their specification.)				Standard Density (SD) 2.2 - Barrier Packaging Application High Density (HD) 2.5 - High Barrier Application Very High Density (VHD) 2.8 - Special Application		
THICKNESS		Internal	Micron	12		
			(Gauge)	48		
YIELD		Internal	m^2 / kg	59.52		
			in^2 /lb	41934		
SURFACE TENSION (min) # ★ (Corona Treated surface)		ASTM D-2578	dyne/cm	52		
COF (max) One side to the other side		ASTM D-1894	-	0.70		
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm^2	1800		
	TD			1900		
	MD		(Psi)	25500		
	TD			27000		
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	110		
	TD			95		
LINEAR SHRINKAGE (max) (30 Minute at 105°C)	MD	ASTM D-1204	%	1.5		
	TD			0.6		
MVTR (38°C & 90%RH) (typical)		ASTM F-1249		SD	HD	VHD
			$gm/m^2/day$	1.0	0.6	0.4
			($gm/100in^2/day$)	0.06	0.04	0.03
OTR (23°C & 0%RH) (typical)		ASTM D-3985	$cc/m^2/day$	1.1	1.0	0.8
			($cc/100in^2/day$)	0.07	0.06	0.05

★ This dyne value is applicable only for NAFTA, SA, and Poland manufacturing plants.
The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

FLEXMETPROTECT™ needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, FLEXMETPROTECT™ is suitable for use within 180 days from the date of shipment.

FOOD CONTACT

FLEXMETPROTECT™ complies with EU and FDA regulations on plastic materials used for food grade application. Specific documents and SDS are available on request.

DISCLAIMER

Ref. No: QAD UFLI S/20 - MF14/1
**** TDS issued on 01-04-2020. All previous version of this grade are invalid.**

FlexFilms
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