

R-LBP-M

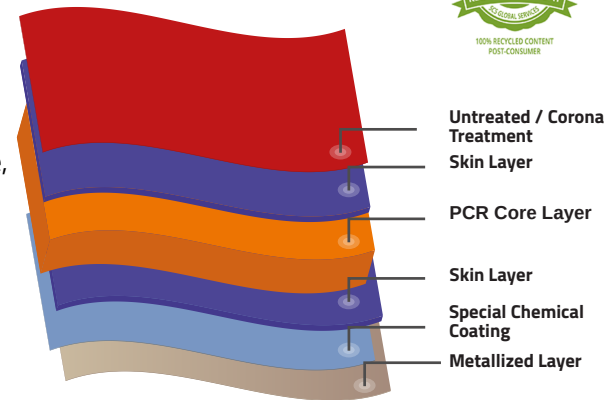
PCR BASED METALLIZED LIQUID PACKAGING FILM

Base polyester is one side Special Chemical Coated whereas the other side is either Untreated or Corona Treated. F-LBP-M is a metallized BOPET film. This film has been specially designed to suit the key requirements for liquid packaging such as Bag-in-Box and Aseptic Packaging applications. The film has high impact resistance, high thermal stability, and abrasion resistance. It also offers high resistance to chemicals, plasticizers, microbes, high energy radiation, and UV radiation. The metallization is available on the Special Chemical Coated surface (MC) giving a bond strength between the metal and the film a minimum of 600gm/25mm. This film grade is suitable for flexible packaging including hot fill applications up to 100°C (212°F). This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High thermal stability
- High metal bond strength
- Excellent machinability & handling properties
- Post Consumer Recycle content for a low carbon footprint (all% PCR)

FILM STRUCTURE



APPLICATION:

- Liquid packaging
- Aseptic packaging
- Bag-in-Box packaging

PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUES
OPTICAL DENSITY*** (TOLERANCE: +/- 5%) (***Customer to specify the OD value as per their specification.)			Very High Density (VHD) 2.8 - Special Application
THICKNESS	Internal	Micron (Gauge)	12 48
YIELD	Internal	m ² / kg in ² / lb	59.52 41934
SURFACE TENSION (min) #★ (UPF Chemical Coated surface) (Corona Treated surface)	ASTM D-2578	dyne/cm	48 52
COF (max) (One side to the other)	ASTM D-1894	-	0.70
TENSILE STRENGTH AT BREAK (min)	MD	kg/cm ²	1900
	TD		2000
	MD	(Psi)	27000
	TD		28500
ELONGATION AT BREAK (min)	MD	%	105
	TD		85
LINEAR SHRINKAGE (max) (30 Minute at 105°C)	MD	%	1.5
	TD		0.6
MVTR (38°C & 90% RH) (typical)	ASTM F-1249	gm/m ² /day	0.4
		(gm/100 in ² /day)	0.03
OTR (23°C & 0% RH) (typical)	ASTM D-3985	cc/m ² /day	0.8
		(cc/100 in ² /day)	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

It is the responsibility of our customer to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion purposes only. The customer may not rely on the data provided for any manufacturing purpose. The values provided in the technical data sheet represent typical values based on the best of our knowledge as of the date when the data was compiled. The data is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability/compatibility in all respects. Flex provides no warranty and accepts no liability for any loss or fitness of the product for any specific purpose based on the information contained in the technical data sheets. Flex reserves the right to change the technical data sheet at any time without prior notice.

FlexFilms

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