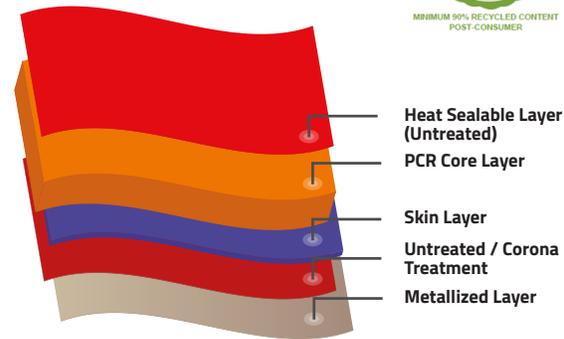


R-HSP-M

METALLIZED PCR BASED HEAT-SEAL FILMS

R-HSP-M is co-extruded transparent Heat-Sealable BOPET film from our Asclepius branded PCR content products. The film has a Heat-Sealable Functional layer on one side with the other side being metallized. The film is available with an optical density of 2.2. The metallization is available on the Untreated surface (MU) or Corona Treated surface (MT) as specified by the customer. The bond between the metal & film is a minimum of 100gm/25mm when metallized on the Untreated surface & a minimum of 130gm/25mm when metallized on the Corona Treated surface. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

FILM STRUCTURE



KEY FEATURES:

- Good barrier properties
- Post Consumer Recycle content for low carbon footprint (all % PCR)
- Excellent machinability & handling properties
- Good metal bond properties

APPLICATION:

- Tack Seal application
- Food tray sealing
- Decorative applications
- Printing & Lamination

PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUES		
OPTICAL DENSITY (TOLERANCE: +/- 5%)			Standard Density (SD) 2.2 - Barrier Packaging Application		
THICKNESS	Internal	Micron	12	15	
		(Gauge)	48	60	
YIELD	Internal	m ² / kg	59.52	47.62	
		in ² /lb	41934	33550	
COF (max) One side to the other side	ASTM D-1894	-	0.70		
TENSILE STRENGTH AT BREAK (min)	MD	kg/cm ²	1700	1700	
	TD		1900	1900	
	MD	(Psi)	24200	24200	
	TD		27000	1900	
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	
	TD			85	
LINEAR SHRINKAGE (max) (30 Minute at 105°C)	MD	ASTM D-1204	%	1.5	
	TD			0.6	
HEAT SEAL TEMP. RANGE	Internal	°C	110-200	110-200	
SEAL STRENGTH (120°C, 1 sec, 2.8 bar)	FIN SEAL	ASTM D-882	gm/25mm	400	500
MVTR (38°C & 90% RH) (typical)	ASTM F-1249	gm/m ² /day	SD		
			(gm/100 in ² /day)	1.0	0.06
OTR (23°C & 0% RH) (typical)	ASTM D-3985	cc/m ² /day	SD		
			(cc/100 in ² /day)	1.1	0.07

★ 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.