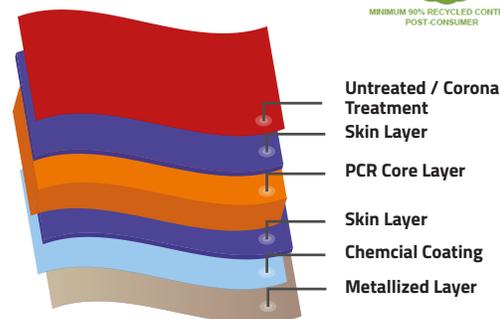


# R-CHC-M/R-CHE-M

## METALLIZED CHEMICAL COATED PCR BASED FILMS

R-CHC-M and R-CHE-M are metallized BOPET films. The films are one side Chemical Coated whereas the other side is either Untreated or Corona Treated. Film is available in optical densities ranging from 2.2 to 2.8; this wide range gives options to the customer to use the product for a diverse range of applications. The metallization is available on the Chemical Coated surface (MC). The bond between the metal & film is a minimum of 500gm/25mm when metallized on the Chemical Coated surface. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

## FILM STRUCTURE



### KEY FEATURES:

- Excellent gloss
- Good barrier properties
- Excellent machinability & handling properties
- Excellent metal bond property
- Post Consumer Recycle content for a low carbon footprint (all% PCR)
- Not suitable for hot fill, sterilization, or pasteurization

### APPLICATION:

- Flexible Packaging
- Laminations (Solventless and extrusion)
- Decorative applications

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	15	23	
		(Gauge)	48	60	92	
YIELD	Internal	m <sup>2</sup> / kg	59.52	47.62	31	
		in <sup>2</sup> /lb	41934	33550	21876	
SURFACE TENSION (min) # ★ (Chemical Coated surface) (Corona Treated surface)	ASTM D-2578	Dyne/cm	60			
			52			
COF (max) (One side to the other side)	ASTM D-1894	-	0.70			
TENSILE STRENGTH AT BREAK (min)	MD TD MD TD	ASTM D-882	kg/cm <sup>2</sup>	1900	1900	1900
				2000	2000	2000
			(Psi)	27000	27000	27000
				28500	28500	28500
ELONGATION AT BREAK (min)	MD TD	ASTM D-882	%	105	105	115
				85	85	90
LINEAR SHRINKAGE (max) (30 Minute at 105°C)	MD TD	ASTM D-1204	%	1.5		
				0.6		
MVTR (38°C & 90% RH) (typical)	ASTM F-1249	gm/m <sup>2</sup> /day (gm/100 in <sup>2</sup> /day)	SD	HD	VHD	
			1.0	0.6	0.4	
			0.06	0.04	0.03	
OTR (23°C & 0% RH) (typical)	ASTM D-3985	cc/m <sup>2</sup> /day (cc/100 in <sup>2</sup> /day)	1.1	1.0	0.8	
			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

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/com patibility 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.

Ref. No: QAD UFLI S/20 - MF37/1

\*\* TDS issued on 01-04-2020. All previous version of this grade are invalid.

**FlexFilms**

Manufacturing Facilities at  
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 USA | Hungary | Russia | Nigeria  
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