



VT-COMET-HGHBARR-CHEM4

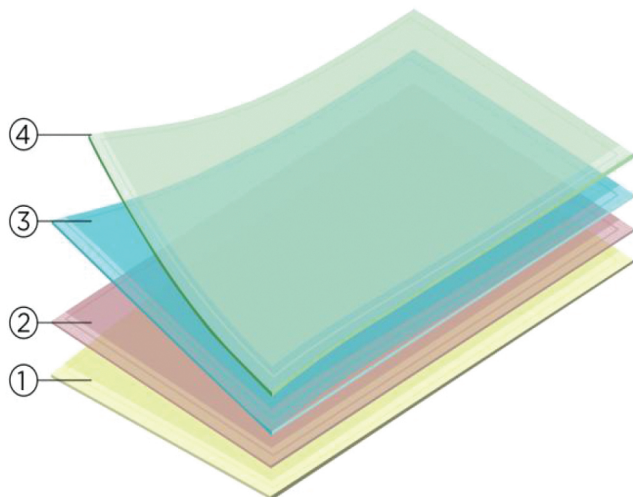
PILCHER HAMILTON

PROVISIONAL DATASHEET

Revision: 23

Issued: 1st Jan'2024

Pilcher Hamilton a High Barrier Metallized polyester film suitable for flexible packaging application. This film is metallized on chemically coated surface to provide excellent barrier to oxygen and water vapour with very high metal bond strength. This grade of film can be used as a substitution of aluminum foil in flexible packaging applications. This film grade complies with FDA and EC regulations for food packaging. Corona treatment on non-coated surface is optional.



Film Types:

MCBI- Metallized on chemically coated surface inside

MCBO- Metallized on chemically coated surface outside

MCBIT-Metallized on chemically coated surface inside, outside corona treated

MCBOT- Metallized on chemically coated surface outside, inside corona treated

APPLICATION:

- Printing & *Flexible* packaging
- Barrier layer in Laminates for flexible packaging
- As a substitute for aluminum foil

1. Modified skin (Corona optional)

2. Core Layer

3. Chemically coated skin

4. Metallized surface

Properties		Unit	Typical Values			Test Method
Thickness [+/- 2.5%] (Nominal)		Micron	9	10	12	INTERNAL
		Gauge	36	40	48	
Yield (nominal)		m ² /kg	79.6	71.7	59.7	
		in ² /lb	56000	50500	42000	ASTM D 1204
Shrinkage(max) 150°C @ 30 min	MD	%	2.2	2.2	2.2	
	TD		0.6	0.6	0.6	
Transmission Rate WVTR(38°C,90%RH)	*OD-2.2	gm/m ² -day	≤0.60	≤0.50	≤0.45	ASTM F 1249
	*OD-2.5		≤0.50	≤0.45	≤0.30	
	*OD-2.8		≤0.45	≤0.40	≤0.20	
	*OD-2.2	gm/100 in ² -day	≤0.04	≤0.03	≤0.03	
	*OD-2.5		≤0.03	≤0.03	≤0.02	
	*OD-2.8		≤0.03	≤0.03	≤0.01	
Transmission Rate OTR(23°C,0%RH)	*OD-2.2	cc/m ² -day	≤1.00	≤0.95	≤0.80	ASTM D 3985
	*OD-2.5		≤0.85	≤0.75	≤0.60	
	*OD-2.8		≤0.75	≤0.65	≤0.50	
	*OD-2.2	cc/100 in ² -day	≤0.06	≤0.06	≤0.05	
	*OD-2.5		≤0.05	≤0.05	≤0.04	
	*OD-2.8		≤0.05	≤0.04	≤0.03	
Film to Metal bond Strength (Avg)		Gm/25mm	800			VILB METHOD
Reel Width Tolerance		mm	-0/+2			-

*Allowable OD Tolerance: +/- 5%

Next revision latest by Jan. 2025

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Disclaimer

The above information is believed to be reliable and accurate but is presented without guarantee on our part. Pilcher gives no warranty as to the fitness of the above product for any particular purpose and any implied warranty or condition statutory or otherwise. It is recommended to make a trial before any bulk usage.

- For product shelf life and handling & storage instructions of Pilcher products; please refer Material Safety Data sheet.
- PHC Material is being sold under terms of General Conditions of Sale of Pilcher Hamilton

