



# Nahar

## POLY FILMS LTD.



<b>PRODUCT CODE</b> <b>HML</b>	<b>ONE SIDE METALLISED OTHER SIDE LOW HEAT SEALABLE FILM</b> <b>APPLICATION : Packaging &amp; conversion</b>
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**TECHNICAL DATA SHEET BOPP**

PROPERTIES	TEST METHOD	UNIT	POSITION	HML18	HML20	HML25
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**PHYSICAL**

<b>Thickness</b>	ASTM D 374	MICRON		18	20	25
<b>Grammage</b>	NTM	gm/m <sup>2</sup>		16.4	18.2	22.8
<b>Yield</b>	NTM	m <sup>2</sup> /kg		61.0	55.0	44.0
<b>Thickness variation</b>		%(±)		3		

**SURFACE**

<b>Treatment Level (min)</b>	ASTM D 2578	dyne/cm		38		
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**OPTICAL**

<b>Optical Density</b>	NTM	-		2.0 - 2.2		
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**MECHANICAL**

<b>Coefficient Of Friction</b>	ASTM D 1894	Static		0.40 - 0.45		
		Kinetic		0.35 - 0.40		
<b>Tensile strength</b>	ASTM D 882	Kg/cm <sup>2</sup>	MD	1200 - 1500		
			TD	2600 - 3000		
<b>Modulus</b>	ASTM D 882	Kg/cm <sup>2</sup>	MD	16000 - 18000		
			TD	26000 - 28000		
<b>Elongation</b>	ASTM D 882	%	MD	140 - 160		
			TD	40 - 80		

**THERMAL**

<b>Shrinkage at 120°C/ 5min</b>	ASTM D 1204	%	MD	2 - 4		
			TD	1 - 3		
<b>Seal Initiation Temperature</b>	NTM	°C	-	110		
<b>Sealing Strength at 120°C/2Bar</b>	NTM	gms/25mm	-	400		

**BARRIER**

<b>Water Vapour Transmission Rate</b>	ASTM F 1249	GM/M <sup>2</sup> /24h		0.60	0.60	0.60
<b>Oxygen Gas Transmission Rate</b>	ASTM D 3985	cc/M <sup>2</sup> /24h		80	80	80

The values given in this technical datasheet are typical performance data and are believed to be accurate. These are given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. NAHAR POLY FILMS LTD. Suggests to the customer to confirm these values and product compatibility prior to their use and the company offers neither guarantee nor accept any responsibility for the fitness of the product for any other use.

Treatment value of BOPP films tend to decay over a period of time during transportation & storage conditions. Therefore it is recommended that the customer should check the treatment levels prior to processing and if a reduction is observed then online corona treatment, high adhesive GSM & a suitable primer may be applied.

NTM: NAHAR TEST METHOD, MD : MACHINE DIRECTION ,TD : TRANSVERSE DIRECTION