



# Nahar

## POLY FILMS LTD.



<b>PRODUCT CODE</b> <b>TPM</b>	<b>ONE SIDE GLOSSY OTHER SIDE MATTE</b> <b>APPLICATION : LAMINATION OF PRINTED PAPER WITH MATTE APPEARANCE</b>
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**TECHNICAL DATA SHEET BOPP**

PROPERTIES	TEST METHOD	UNIT	POSITION	TPM-12	TPM-15	TPM-20
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**PHYSICAL**

Thickness	ASTM D 374	MICRON		12	15	20
Grammage	NTM	gm/m <sup>2</sup>		10.4	13.1	17.4
Yield	NTM	m <sup>2</sup> /kg		95.8	76.6	57.5
Thickness variation		%(±)		3		

**SURFACE**

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

Haze	ASTM D 1003	%		75 - 80		
Gloss	ASTM D 2457	-	Matty side	10 - 12		
			Glossy Side	55 - 60		

**MECHANICAL**

Coefficient Of Friction	ASTM D 1894	Static		0.40 - 0.50		
		Kinetic		0.35 - 0.40		
Tensile strength	ASTM D 882	Kg/cm <sup>2</sup>	MD	1000 - 1400		
			TD	2000 - 2200		
Modulus	ASTM D 882	Kg/cm <sup>2</sup>	MD	14000 - 17000		
			TD	24000 - 28000		
Elongation	ASTM D 882	%	MD	140 - 160		
			TD	40 - 60		

**THERMAL**

Shrinkage at 120°C/ 5min	ASTM D 1204	%	MD	3 - 5		
			TD	1 - 3		

**BARRIER**

Water Vapour Transmission Rate	ASTM F 1249	GM/M <sup>2</sup> /24h	-	≤8.2	≤8	≤7
Oxygen Gas Transmission Rate	ASTM D 3985	cc/M <sup>2</sup> /24h	-	2100	2000	1800

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