



# Nahar

## POLY FILMS LTD.



<b>PRODUCT CODE TPR</b>	<b>TRANSPARENT NON HEAT SEALABLE ONE SIDE TREATED APPLICATION : REVERSE PRINTING AND LAMINATION.</b>
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**TECHNICAL DATA SHEET BOPP**

PROPERTIES	TEST METHOD	UNIT	POSITION	TPR15	TPR18	TPR20	TPR25	TPR30
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**PHYSICAL**

Thickness	ASTM D 374	MICRON		15	18	20	25	30
Grammage	NTM	gm/m <sup>2</sup>		13.7	16.4	18.2	22.8	27.3
Yield	NTM	m <sup>2</sup> /kg		73.0	60.9	54.9	44.0	36.6
Thickness variation		%(±)		3				

**SURFACE**

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

Haze	ASTM D 1003	%		1.5 - 2.0				
Gloss	ASTM D 2457	-		90 - 95				

**MECHANICAL**

Coefficient Of Friction	ASTM D 1894	Static		0.35 - 0.40				
		Kinetic		0.30 - 0.35				
Tensile strength	ASTM D 882	Kg/cm <sup>2</sup>	MD	1200 - 1500				
			TD	2200 - 2600				
Modulus	ASTM D 882	Kg/cm <sup>2</sup>	MD	15000 - 19000				
			TD	26000 - 30000				
Elongation	ASTM D 882	%	MD	140 - 180				
			TD	40 - 80				

**THERMAL**

Shrinkage at 120°C/ 5min	ASTM D 1204	%	MD	3.0 - 5.0				
			TD	1.0 - 3.0				

**BARRIER**

Water Vapour Transmission Rate	ASTM F 1249	GM/M <sup>2</sup> /24h	-	≤7.5	≤6.5	≤5.5	≤4.5	≤3
Oxygen Gas Transmission Rate	ASTM D 3985	cc/M <sup>2</sup> /24h	-	2050	1850	1850	1600	1500

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