PRODUCT CODE **THS**	**Transparent one side non Sealable other side Heat Sealable** **APPLICATION : Sandwich Lamination**						
TECHNICAL DATA SHEET BOPP							
PROPERTIES	**TEST METHOD**	**UNIT**	**POSITION**	**THS18**	**THS20**	**THS25**	**THS30**
PHYSICAL							
Thickness	**ASTM D 374**	**MICRON**		18	20	25	30
Grammage	**NTM**	**gm/m²**		16.4	18.2	22.8	27.3
Yield	**NTM**	**m²/kg**		60.9	55.0	44.0	36.6
Thickness variation		**%(±)**		3.0			
SURFACE							
Treatment Level (min)	**ASTM D 2578**	**dyne/cm**		38			
OPTICAL							
Haze(Max)	**ASTM D 1003**	**%**		1.5-2.0			
Gloss (Min)	**ASTM D 2457**	**-**		90 - 92			
MECHANICAL							
Coefficient Of Friction	**ASTM D 1894**	**Static**		0.40 - 0.45			
		Kinetic		0.35 - 0.40			
Tensile strength	**ASTM D 882**	**Kg/cm²**	MD	1200 - 1700			
			TD	2600 - 3000			

Modulus	**ASTM D 882**	**Kg/cm²**	MD	16000 - 19000
			TD	25000 -28000
Elongation	**ASTM D 882**	**%**	MD	140 - 180
			TD	40 - 80
THERMAL				
Seal Initiation Temperature	**NTM**	**ºC**	-	115 - 118
Shrinkage at 120ºC/ 5min	**ASTM D 1204**	**%**	MD	3.0 - 5.0
			TD	1.0 - 3.0
Sealing Strength at 120ºC/2Bar	**NTM**	**gms/25mm**	-	400 - 450
BARRIER				
Water Vapour Transmission Rate	**ASTM F 398**	**GM/M²/24h**	-	4.0 - 6.5
Oxygen Gas Transmission Rate	**1249 ASTM D 3985**	**cc/M²/24h**	-	1600-1850

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