

PRODUCT CODE HHW	WHITE OPAQUE BOTH SIDE HEAT SEALABLE APPLICATION : PRINTING & CONVERSION					
TECHNICAL DATA SHEET BOPP						
PROPERTIES	TEST METHOD	UNIT	POSITION	HHW15	HHW18	HHW20
PHYSICAL						
Thickness	ASTM D 374	MICRON		15	18	20
Grammage	NTM	gm/m²		14.3	17.1	19.0
Yield	NTM	m²/kg		70.2	58.5	52.6
Thickness variation		%(±)		3.0		
SURFACE						
Treatment Level (min)	ASTM D 2578	dyne/cm		38		
OPTICAL						
Transmittance (max.)	ASTM D 1003	%		45	42	42
Gloss	ASTM D 2457	-		55	55	55
MECHANICAL						
Coefficient Of Friction	ASTM D 1894	Kinetic		0.30-0.40		
Tensile strength	ASTM D 882	Kg/cm²	MD	1000 - 1300		
			TD	2000 - 2400		

Modulus	ASTM D 882	Kg/cm²	MD	14000 - 15000		
			TD	24000 - 26000		
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		
Seal Initiation Temperature	NTM	°C	-	115 - 120		
Sealing Strength at 120°C/2Bar	NTM	gms/25mm	-	300 - 400		
BARRIER						
Water Vapour Transmission Rate	ASTM F 1249	GM/M²/24h	-	5.0 - 6.5		
Oxygen Gas Transmission Rate	ASTM D 3985	cc/M²/24h	-	1850	1800	1700

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."

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