

**Technical Specs. : 15,18 & 23 mic Plain BOPP**

Sr.No.	Property	Unit	Test Method	Standards		
<b>General</b>						
1	Thickness	Micron	KME Method	15	18	23
2	Average Grammage	gsm	KME Method	13.58	16.29	20.85
3	Yield	M <sup>2</sup> /Kg	KME Method	73.66	61.39	47.96
4	Density	gm/cc	ASTM-D-1 505	0.905		
5	Wetting tension (Treated side)	Dyne/cm	ASTM D 2578	38		
<b>Mechanical</b>						
1	Tensile Strength at break MD	Kg/cm <sup>2</sup>	ASTM-D-8 82	1200 - 1500		
2	Tensile Strength at break TD	Kg/cm <sup>2</sup>	ASTM-D-8 82	2200 - 2500		
3	Elongation MD	%	ASTM-D-8 82	150 - 200		
4	Elongation TD	%		50 - 80		
5	Coefficient of friction Film/ Film	--	ASTM-D-1 894	0.30 - 0.40		
<b>Optical</b>						
1	Haze	%	ASTM-D-1 003	2		
2	Gloss at 45 deg gardner	%	ASTM-D - 2457	90		
<b>Thermal</b>						
1	Shrinkage @ 120 ° C 5 min		ASTM D 1204			
a	MD	%		2.00 - 4.00		
b	TD	%		1.00 - 3.00		
<b>Roll</b>						
1	Width - Max	mm	KME Method	850	850	850
2	Standard Length - Min	Mtrs	KME Method	16000	15000	14000
3	Standard Length - Max	Mtrs	KME Method	18000	17000	16000

MD - Machine Direction

TD - Transverse Direction

**Technical Specs. : 18 & 20 mic MET BOPP**

Sr.No.	Property	Unit	Test Method	Standards	
<b>General</b>					
1	Thickness	Micron	KME Method	18	20
2	Average Grammage	gsm	KME Method	16.29	18.1
3	Yield	M <sup>2</sup> /Kg	KME Method	61.39	55.25
4	Density	gm/cc	ASTM-D-15 05	0.905	
5	MVTR	g/m <sup>2</sup> /24hr	38°C 90%RH	0.5 - 0.8	
6	Oxygen Permeability	cc <sup>2</sup> /24hr	23°C 65% RH	80	
7	Wetting tension (Treated side)	Dyne/cm	ASTM D 2578	38	
<b>Mechanical</b>					
1	Tensile Strength at break MD	Kg/cm <sup>2</sup>	ASTM-D-88 2	1200 - 1500	
2	Tensile Strength at break TD	Kg/cm <sup>2</sup>	ASTM-D-88 2	2200 - 2500	
3	Elongation MD	%	ASTM-D-88 2	150 - 180	
4	Elongation TD	%		50 - 70	
5	Coefficient of friction Film/ Film	--	ASTM-D-18 94	0.25 - 0.35	
<b>Optical</b>					
1	Optical Density			2.2 - 2.4	
<b>Thermal</b>					
1	Shrinkage @ 120 ° C 5 min		ASTM D 1204		
a	MD	%		2.00 - 4.00	
b	TD	%		1.00 - 3.00	
2	Heat seal str. @ 120	gm/25 mm	KME Method	500 - 600	550 - 650
<b>Roll</b>					
1	Width - Max	mm	KME Method	850	850
2	Standard Length - Min	Mtrs	KME Method	16000	15000

3	Standard Length - Max	Mtrs	KME Method	18000	17000
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MD - Machine Direction

TD - Transverse Direction

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