

METALLIZED ON TREATED SIDE (MT) AND OTHER SIDE LOW HEAT SEALABLE WITH EXCELLENT BARRIER PROPERTIES (B-TVL-M)

APPLICATION: PACKAGING & CONVERSION

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE					
			15	18	20	25	30	
<b>OPTICAL</b>								
OPTICAL DENSITY** (TOLERANCE : +/- 5%)	Gretag	-	2.2	2.2	2.2	2.2	2.2	
<b>GENERAL</b>								
THICKNESS	Internal	Micron (Gauge)	15 60	18 72	20 80	25 100	30 120	
FILM DENSITY	D-1505	gm/cc	0.91	0.91	0.91	0.91	0.91	
GRAMMAGE	Internal	gm/m <sup>2</sup>	13.65	16.38	18.20	22.75	27.30	
YIELD	Internal	m <sup>2</sup> /kg	73.26	61.05	54.95	43.96	36.63	
TREATMENT LEVEL** (Min.)	D-2578	dyne/cm	36	36	36	36	36	
<b>MECHANICAL</b>								
TENSILE STRENGTH AT BREAK (Min.)	MD*	D-882	Kg/cm <sup>2</sup>  (Psi)	1200	1200	1200	1200	1200
	TD*			2500	2500	2500	2500	2500
ELONGATION AT BREAK (Min.)	MD	D-882	%	17000	17000	17000	17000	17000
	TD			35500	35500	35500	35500	35500
MODULUS OF ELASTICITY (Min.)	MD	D-882	Kg/cm <sup>2</sup>  (KPsi)	160	160	160	160	160
	TD			60	60	60	60	60
	MD			18000	18000	18000	18000	18000
	TD			30000	30000	30000	30000	30000
	MD			255.6	255.6	255.6	255.6	255.6
	TD			426	426	426	426	426
<b>THERMAL</b>								
LINEAR SHRINKAGE (Max.) (AT 120°C/5 Minute)	MD	D-1204	%	5.0	4.0	4.0	4.0	4.0
	TD			2.0	2.0	2.0	2.0	2.0
HEAT SEAL INITIATION TEMPERATURE	Internal		°C	105	105	105	105	105
HEAT SEAL STRENGTH (Min.)	Internal		gm/25mm	225	275	275	300	325
<b>BARRIER PROPERTIES</b>								
W.V.T.R.(38°C & 90%RH)	F-1249		gm/m <sup>2</sup> /day	1.1	1.0	1.0	1.0	1.0
			(gm/100in <sup>2</sup> /day)	0.07	0.06	0.06	0.06	0.06
O.T.R. (23°C & 0%RH)	D-3985		cc/m <sup>2</sup> /day	125	110	100	100	100
			(cc/100in <sup>2</sup> /day)	8.0	7.0	6.5	6.5	6.5

\*\* The film of high O.D. = 2.4 (Min.) is also available.

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\*MD = MACHINE DIRECTION \*TD = TRANSVERSE DIRECTION

\*\*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.

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