

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

APPLICATION: PACKAGING & CONVERSION

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE					
			15	18	20	25	30	
OPTICAL								
OPTICAL DENSITY** (TOLERANCE : +/- 5%)	Gretag	-	2.2	2.2	2.2	2.2	2.2	
GENERAL								
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 ²	13.65	16.38	18.20	22.75	27.30	
YIELD	Internal	m ² /kg	73.26	61.05	54.95	43.96	36.63	
TREATMENT LEVEL** (Min.)	D-2578	dyne/cm	36	36	36	36	36	
MECHANICAL								
TENSILE STRENGTH AT BREAK (Min.)	MD*	D-882	Kg/cm ²	1200	1200	1200	1200	1200
	TD*		2500	2500	2500	2500	2500	
	MD*		(Psi)	17000	17000	17000	17000	17000
	TD*		35500	35500	35500	35500	35500	
ELONGATION AT BREAK	MD	D-882	%	160	160	160	160	160
	TD		60	60	60	60	60	
	MD		Kg/cm ²	18000	18000	18000	18000	18000
MODULUS OF ELASTICITY	TD	D-882	Kg/cm ²	30000	30000	30000	30000	30000
	MD		(KPsi)	255.6	255.6	255.6	255.6	255.6
	TD		426	426	426	426	426	
THERMAL								
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	115	115	115	115	115
HEAT SEAL STRENGTH (Min.)	Internal		gm/25mm	200	250	250	275	300
BARRIER PROPERTIES								
W.V.T.R.(38°C & 90%RH)	F-1249		gm/m ² /day	1.1	1.0	1.0	0.9	0.85
			(gm/100in ² /day)	0.07	0.06	0.06	0.054	0.051
O.T.R. (23°C & 0%RH)	D-3985		cc/m ² /day	125	110	100	100	100
			(cc/100in ² /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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