



TECHNICAL DATA SHEET

ZOI METALIZED PET

Product Description:
Polyester film having metal deposit layer on one side and other side untreated standard surface

Key Features
Excellent Gloss
Good Barrier Properties
Excellent Machinability & Handling properties

Applications:
Flexible Packaging
Lamination/Duct Insulation
Decorative application

GRADE	BASE FILM	ONE SURFACE	OTHER SURFACE	METALLIZATION SIDE
MET-M	STANDARD	PLAIN	PLAIN/CORONA	Metalization will be either side
CLR-M	OPTICALLY CLEAR	PLAIN	PLAIN/CORONA	(i.e. On corona or Untreated side)
XLR-M	EXTRA CLEAR	PLAIN	PLAIN/CORONA	TO BE SPECIFIED BY CUSTOMER

The above grades of films are metallized polyester film. The film have superior gloss when metallized on optically clear base film and further improved when metallized on extra clear base film. Film is available in optical density ranging from 1.4 to 3.0. The wide range of optical densities give choice to the customer to use the product for divers range of applications. The metallization is available on plain side (MU) or on corona treated side (MT), as specified by the customer. The bond between the metal and film is 100-150gm/25mm (when metallized on plain side) & 130-180gms/25mm (when metallized on corona side).

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE						
			9	10	12	15	19	23	
OPTICAL DENSITY*** (TOLERANCE: +/- 5%) (***Customer to specify the O.D. value as per their application)			SD	2.2 – Normal Packaging Application					
			HD	2.5 – High Barrier Application					
			VHD	2.8 - Special Application					
THICKNESS	Internal	Micron (Gauge)	9	10	12	15	19	23	
			36	40	48	60	76	92	
FILM DENSITY	D-1505	gm/cc	1.4	1.4	1.4	1.4	1.4	1.4	
GRAMMAGE	Internal	gm/m ²	12.6	14	16.8	21.0	26.6	32.2	
YIELD	Internal	m ² /kg in ² /lb	79.36	71.42	59.52	47.62	37.59	31.05	
			55912	50318	41934	33550	26483	21876	
COEFF OF KINETIC FRICTION	D-1894	-	0.7	0.7	0.7	0.7	0.7	0.7	
TENSILE STRENGTH AT BREAK	MD	Kg/cm ² (psi)	1900	1900	1900	1900	1900	1900	
	TD		2000	2000	2000	2000	2000	2000	
	MD		27000	27000	27000	27000	27000	27000	
	TD		28500	28500	28500	28500	28500	28500	
ELONGATION AT BREAK	MD	D-882	%	90	100	105	105	110	115
	TD			80	80	85	85	85	95
LINEAR SHRINKAGE (MAX) (AT 105°C/30 minute)	MD	D-1204	%	1.5	1.5	1.5	1.5	1.5	1.5
	TD			0.6	0.6	0.6	0.6	0.6	0.6
W.V.T.R. (38°C & 90%RH)	F-1249	gm/m ² /day (gm/100in ² /day)	SD	1.0	0.6	0.4			
			HD	0.06	0.04	0.03			
O.T.R. (23°C & 0%RH)			D-3985	cc/m ² /day (cc/100in ² /day)	1.1	1.0	.08		
				0.07	0.06	0.05			

*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION
MI = Metal wound inside MO = Metal wound out side
SD- Standard Density, HD - High Density, VHD - Very High Density

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