

Tubiprint Exports

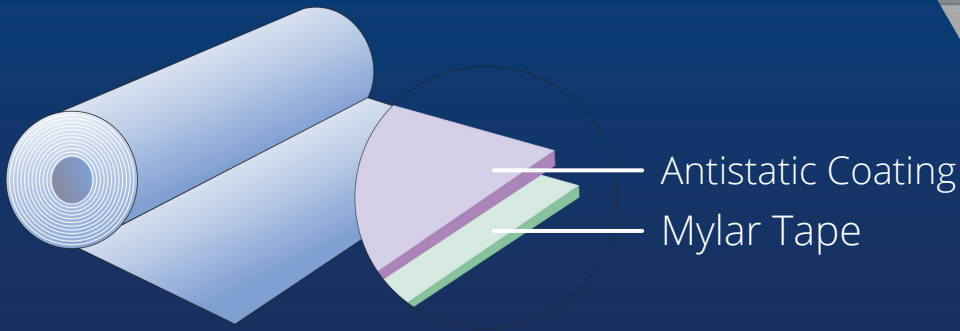
Brand Securing Globally

TUBIPRINT E-FILE
TECHNICAL DATA SHEET
MYLAR-TAPE

MYLAR-TAPE

Product Description

It's a plain/ printed mylar film tape specially developed for cable industries.



History

The BoPet film was developed by DuPont, Hoechst, and Imperial Chemical Industries (ICI) in the 1950s.

Application

Mainly used in power cables, communication cables, coaxial cables, magnetic wires, data cables signal cables, instrumentation cables & special cables etc.

Key Features:

- ✓ Free printing on tape
- ✓ High tensile strength, good electrical characteristics, heat resistance attributes up-to 250° temperature, chemical resistance etc.
- ✓ Minimum width 8mm onwards up-to any sizes.

TECHNICAL DATA										
PROPERTIES	UNITS	ASTM # / TEST METHOD	TYPICAL VALUE							
GENERAL DATA										
THICKNESS	MIC	TPE	12µm	15µm	19µm	23µm	36µm	50µm	75µm	100µm
YEILD	M ² /KG	TPE	59.5	47.6	37.5	31	19	14.3	9.5	7.14
DENSITY	GM/CC	ASTM-D-1505	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
WATER ABSORBTION (MAX)	%	ASTM-D-570	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
SERVICE TEMPERATURE	DEG C	TPE	-70 TO 150							
OLIGOMER EXTRACTION	%	TPE	NA							
MECHANICAL DATA										
TENSILE STRENGTH										
MD	KG/CM ²	ASTM-D-882	2000	2000	2000	2000	2000	2000	1900	1900
TD	KG/CM ²	ASTM-D-882	2000	2000	2000	2000	2000	2000	1900	1900
ELONGATION										
MD	%	ASTM-D-882	120	120	120	120	140	140	140	140
TD	%	ASTM-D-882	100	100	100	100	130	130	130	140
COF – STATIC (ONE SIDE TO OTHER)	-	ASTM-D-1894	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4
OPTICAL DATA										
HAZE	%	ASTM-D-1003	4.0	4.0	4.0	4.0	4.0	4.6	4.8	5.2
THERMAL DATA										
SHRINKAGE @ 150° DEG C FOR 30 MINS	%									
MD	%	ASTM-D-1204	2.0	2.0	2.0	1.4	1.2	1.2	1.2	1.2
TD	%	ASTM-D-1204	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
SHRINKAGE @ 190° DEG C FOR 5 MINS										
MD	%	ASTM-D-1204	NA							
TD	%	ASTM-D-1204								
MELTING POINT	DEG C	DSC	250							
COEFFICIENT OF THERMAL EXPANSION BETWEEN										
20° DEG C	1/K (CM/CM DEG C)								36 x 10* (MD)	
50° DEG C	1/K (CM/CM DEG C)								36 x 10* (MD)	
SPECIFIC HEAT @ 250 DEG C	CAL/GM DEG C								NA	

ELECTRICAL DATA										
BREAK DOWN VOLTAGE IN AIR (2 ¹¹ ELECTRODE)	KV	ASTM-D-149	3.5	3.9	4.5	5.5	7.5	9.5	12.5	13.5
BREAK DOWN VOLTAGE IN AIR (2 ¹¹ ELECTRODE)	KV	ASTM-D-149	3.5	3.9	4.5	5.5	7.5	9.5	12.5	13.5
SURFACE RESISTIVITY	OHM	ASTM-D-257	10.12							
VOLUME RESISTIVITY	OHM/M	ASTM-D-257	10.16							
DIE ELECTRIC RESISTIVITY		ASTM-D-150	NA							
PERMITIVITY		IEC 250								
23 DEG C, 50 Hz			3.26							
23 DEG C, 1KHz			3.24							
23 DEG C, 10KHz			3.21							
0 DEG C, 50 Hz			3.26							
50 DEG C, 50 Hz			3.27							
100 DEG C, 50 Hz			3.35							
150 DEG C, 50 Hz			3.65							
DISSIPATION FACTOR		IEC 250								
23 DEG C, 50 Hz			0.002							
23 DEG C, 1KHz			0.0055							
23 DEG C, 10KHz			0.011							
0 DEG C, 50 Hz			0.004							
50 DEG C, 50 Hz			0.0015							
100 DEG C, 50 Hz			0.007							
150 DEG C, 50 Hz			0.006							
CHEMICAL RESISTANCE										
DILUTE ACIDS & ALKALIS			GOOD							
CONCENTRATED ALKALIS			POOR							
CONCENTRATED HYDROCHLORIC ACID			FAIR							
CONCENTRATED SULPHURIC ACID			POOR							
GREASE, OILS & FATS			GOOD							
ORGANIC SOLVENTS, ALCOHOL & HYDROCARBONS			GOOD							
KETONES, ESTERS & CLORINATED COMPOUNDS			FAIRLY GOOD							
PHENOLS, CRESOLS & CLORINATED PHENOLS			POOR							

Ref no. QAD TPEX S/10 – F1/1

*MD = MACHINE DIRECTION * TD = TRANSVERSE DIRECTION

The inherent surface tension of the untreated side of any Mylar Tape is minimum 42 dyne/cm

STORAGE & HANDLING:

Mylar Tape need to be stocked in a closed warehouse and should not be exposed to direct sunlight or light sources and from humidity. It is recommended to store below 35 degree C in dry place. Our Mylar Tape is suitable for use within 36 months from the date of manufacturing only if the material is stored in recommended conditions.

DISCLAIMER

It is the responsibility of our customers to determine that their use of our product (s) is safe, lawful & technically suitable in their oriented applications. The values given in the technical data sheet represent typical values based on the best of our knowledge as on date was compiled. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability & compatibility in all respects. Tubiprint Exports gives no warrantee or accept liability for any loss and fitness of the product for any specific purpose. Tubiprint Exports reserves the right to change the technical data sheet at any time for enhancing the quality of the products.

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