DuPont Polyester Films

Mylar® C

Product Range
2.5 to 23 C

Mylar® C is especially produced for the use as capacitor dielectric. It offers an excellent balance between its electrical and physical properties and is used in metallized film as well as in film/foil applications.
Listed below are typical values of properties of films from 8 to 15 micron.

Film properties (typical values)

Property	Unit	TYPE			Test method
		8 C	12 C	15 C	
Average Film thickness	micron	8.0	12.0	15.0	Roll weight
Modulus / MD	N/mm^2	4250	4300	4200	ASTM D-882
Modulus / TD	N/mm^2	4500	4500	4400	"
Tensile strength / MD	N/mm^2	185	200	200	ASTM D-882
Tensile strength / TD	N/mm^2	220	230	230	"
Elongation / MD	%	90	105	110	ASTM D-882
Elongation / TD	%	85	100	105	"
Shrinkage @ 150°C					
MD	%	2.1	1.8	1.6	150°C, 30 min.
TD	%	1.1	1.1	1.0	"
Dielectric strength	Volt	-	4650	6200	VDC, electrode ¼"
Breakdown strength	Volt	3100	-	-	0.5µF film/foil units
Surface roughness RA	nm	55	40	35	Profilometer method
Surface roughness RT	nm	770	580	550	"
Dielectric constant	-	3.25			ASTM D-150, 25°C,
Dissipation factor	-	0.005			1KHz

Standard Roll Dimensions

Core ID	mm	152		
Film width	mm	315, 500, 650, 790		
Film length	m	10000	4000	4500
		20000	10000	7500

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