

MYLAR® MO21

Product Description

Mylar® type MO21 films are strong, heavy gauge films that have excellent electrical properties. These films offer exceptional cut-through resistance, low shrinkage, low moisture absorption, and high thermal durability. Mylar® type MO21 films are used as insulation in systems that have been given Class B ratings by Underwriters Laboratories (UL). They also offer product uniformity that enhances processing on automatic slot and wedge insertion equipment.

General Product Info

The inherit mechanical durability of Mylar® type MO21 films and their good dielectric and thermal durability characteristics endow these films with multiple advantages in motors and generators.

Special Features

Slit rolls are available in the following ID and OD configuration:

- 3" ID 13" OD
- 3" ID 16" OD
- 3" ID 18" OD

Master rolls are available as shown in the Standard Put-Ups table. They are splice free and are available in selected widths in minimum order quantities of 35,000 lb per order with a minimum of 10,000 lb per item.

Typical Applications

Mylar® type MO21 films are being widely used for electrical insulation in slot liners, wedges and phase insulation for motors and generators. Mylar® type MO21 films are also frequently used in hermetic motor/compressor sealed units, fractional horse power motors, diaphragms, and industrial laminations.

Approvals

UL 94 VTM-2 - for 92-1400 gauge (0.023-0.35mm) **UL Recognition -** for 92-500 gauge (0.023-0.35 mm) HWI=5, HAI=4, CTI=1; for 700-1400 gauge (0.18-0.35mm) HWI=4, HAI=0, CTI=1

Typical Properties

Available Tl	nickness	[Gauge]	
750; 900;	1000;	1400	

Property	Thickness	Value	Units	Test		
ELECTRICAL						
Dielectric Strength	750	17.5	kV	ASTM D149 1/4" electrode 500 V/sec 25°C in air		
Dielectric Strength	900	18.4	kV	ASTM D149 1/4" electrode 500 V/sec 25°C in air		
Dielectric Strength	1000	19.0	kV	ASTM D149 1/4" electrode 500 V/sec 25°C in air		
Dielectric Strength	1400	20.0	kV	ASTM D149 1/4" electrode 500		

750 900 1000 1400 750 900 1000 1400 750	38 41 42 46 1.3928 1.3920	% % % %	optical density optical density optical density optical density
900 1000 1400 750 900 1000 1400	41 42 46 1.3928 1.3920	% % %	optical density optical density
750 900 1400	42 46 1.3928 1.3920	% % g/cc	optical density
750 900 1000 1400	1.3928 1.3920	% g/cc	optical density
750 900 1000 1400	1.3928 1.3920	g/cc	optical density
900 1000 1400	1.3920		
900 1000 1400	1.3920		
1000 1400			
1400		q/cc	
	1.3925	g/cm3	
750	1.3925	g/cc	
	140	%	ASTM D882A
900	150	%	ASTM D882A
1000	150	%	ASTM D882A
1400	170	%	ASTM D882A
750	115	%	ASTM D882A
900	130	%	ASTM D882A
1000	140	%	ASTM D882A
1400	170	%	ASTM D882A
750		kpsi	ASTM D882A
900			ASTM D882A
1000			ASTM D882A
1400			ASTM D882A
750	30		ASTM D882A
900	29		ASTM D882A
1000			ASTM D882A
1400	25		ASTM D882A
750	2,600		
900	2,200	in²/lb	
1000	2,000	in²/lb	
1400	1,400	in²/lb	
750	1.6	0/2	Unrestrained @ 150°C/30 min
			Unrestrained @ 150°C/30 min
			Unrestrained @ 150 C/30 min
			Unrestrained @ 150°C/30 min
			Unrestrained @ 150°C/30 min
			Unrestrained @ 150°C/30 min
700	1.1		I Omestianieu w 130°C/30 IIIII
1000	1 7 7	%	Unrestrained @ 150°C/30. min
	1000 1400 750 900 1000 1400 750 900 1000 1400 750 900 1000 1400 750 900	750 27 900 27 1000 27 1400 26 750 30 900 29 1000 29 1400 25 750 2,600 900 2,200 1000 2,000 1400 1,400 750 1.6 900 1.5 1400 1.3 750 0.9 900 1.1	750 27 kpsi 900 27 kpsi 1000 27 kpsi 1400 26 kpsi 750 30 kpsi 900 29 kpsi 1000 29 kpsi 1400 25 kpsi 750 2,600 in²/lb 900 2,200 in²/lb 1000 2,000 in²/lb 1400 1,400 in²/lb 750 1.6 % 900 1.6 % 1000 1.5 % 1400 1.3 % 750 0.9 %

Standard Put-ups

Core I.D. (Inches)	Roll O.D. (Inches)	Thickness (Gauge)	Length (Feet)	
3	13	750	1,360	
3	13	900	1,140	
3	13	1000	1,020	
3	13	1400	730	
10 (Master roll)		750	5,400	
10 (Master roll)		900	4,520	
10 (Master roll)		1000	4,070	
10 (Master roll)		1400	2,850	