

Mylar® A (92 guage)

Polyethylene Terephthalate
DuPont Teijin Films U.S.

Message:

Mylar Type A films have balanced tensile properties and excellent resistance to moisture and most chemicals. They can withstand temperature extremes from -94 to 302°F. Mylar does not become brittle with age under normal conditions, because it contains no plasticizers.

General Information			
UL YellowCard	E93687-252918		
Features	General Purpose		
	Good Adhesion		
	Good Chemical Resistance		
	Good Processability		
	Good Thermal Stability		
	Good Toughness		
	Moisture Resistant		
	Non-Smooth Surface Finish		
Uses	Carbon Ribbons		
	Film		
	Labels		
	Liners		
	Protective Coverings		
	Tape		
Appearance	Clear/Transparent		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ASTM D1505
Molding Shrinkage			ASTM D955
Flow : 0.0230 mm	1.9	%	
Across Flow : 0.0230 mm	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Poisson's Ratio	0.38		ASTM E132
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	23	µm	
Secant Modulus			ASTM D882
1% Secant, MD	4900	MPa	
1% Secant, TD	5100	MPa	
Tensile Strength			ASTM D882

MD : Break	193	MPa	
TD : Break	234	MPa	
Tensile Elongation			ASTM D882
MD : Break	110	%	
TD : Break	90	%	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	254	°C	
CLTE - Flow	1.7E-5	cm/cm/°C	ASTM D696
Specific Heat	1170	J/kg/°C	ASTM C351
Thermal Conductivity	0.15	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+18	ohms·cm	ASTM D257
Dielectric Strength	280	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.20		ASTM D150
Dissipation Factor (1 kHz)	5.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	VTM-2		UL 94
Optical	Nominal Value	Unit	Test Method
Haze	16	%	ASTM D1003

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