DuPont™ Tedlar® SP TUA10AH9 Polyvinyl Fluoride Film

Category : Polymer , Film , Thermoplastic , Fluoropolymer

Material Notes:

UV Screening, High Gloss. Tedlar® SP polyvinyl fluoride film is designed to provide excellent conformability to substrates while maintaining the good durability, color stability, chemical resistance, and ease of cleaning expected of PVF film. Tedlar® SP also offers custom color capability not previously available in PVF film. Tedlar® SP is an unoriented film. It possesses high elongation and moderate yield stress. After lamination using conventional means, it can be easily embossed and will maintain high pattern definition. Tedlar® SP can also be subjected to high levels of forming without significant recovery stresses.Information provided by DuPont.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Tedlar-SP-TUA10AH9-Polyvinyl-Fluoride-Film.php

Physical Properties	Metric	English	Comments
Thickness	25.4 microns	1.00 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength	41.0 MPa	5950 psi	ASTM D882-80, Method A - 100%
Film Elongation at Break, MD	40 % @Temperature 20.0 °C	40 % @Temperature 68.0 °F	
	110 % @Temperature 50.0 °C	110 % @Temperature 122 °F	
	310 % @Temperature 75.0 °C	310 % @Temperature 167 °F	
	340 % @Temperature 100 °C	340 % @Temperature 212 °F	
Film Elongation at Break, TD	40 % @Temperature 20.0 °C	40 % @Temperature 68.0 °F	
	110 % @Temperature 50.0 °C	110 % @Temperature 122 °F	
	310 % @Temperature 75.0 °C	310 % @Temperature 167 °F	
	340 % @Temperature 100 °C	340 % @Temperature 212 °F	
Elongation at Break	200 %	200 %	ASTM D882-80

Mechanical Properties	Metric	English	Comments
Tear Strength	550 kN/m	3140 pli	Graves, MD; ASTM D1004
	550 kN/m	3140 pli	Graves, TD; ASTM D1004
Film Tensile Strength at Break, MD	11.0 MPa @Temperature 100 °C	1600 psi @Temperature 212 °F	
	18.6 MPa @Temperature 75.0 °C	2700 psi @Temperature 167 °F	
	24.1 MPa @Temperature 50.0 °C	3500 psi @Temperature 122 °F	
	38.6 MPa @Temperature 20.0 °C	5600 psi @Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	107 °C	225 °F	Continuous
	175 °C	347 °F	Short Cycle
Minimum Service Temperature, Air	-72.0 °C	-97.6 °F	Continuous
Shrinkage	<= 2.0 % @Temperature 170 °C	<= 2.0 % @Temperature 338 °F	ASTM D1204-78
	0.45 % @Temperature 50.0 °C, Time 1800 sec	0.45 % @Temperature 122 °F, Time 0.500 hour	
	1.5 % @Temperature 100 °C, Time 1800 sec	1.5 % @Temperature 212 °F, Time 0.500 hour	
	1.9 % @Temperature 150 °C, Time 1800 sec	1.9 % @Temperature 302 °F, Time 0.500 hour	

Optical Properties	Metric	English	Comments
Haze	1.4 %	1.4 %	Total; Gardner
	1.7 %	1.7 %	Internal; Gardner
Gloss	57 %	57 %	20°; Gardner
	81 %	81 %	60°; Gardner
	93 %	93 %	85°; Gardner

Optical Properties	Metric	English	Comments

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+13 ohm-cm	4.00e+13 ohm-cm	ASTM D257-78
Dielectric Constant	7.0	7.0	ASTM D151-81
Dielectric Strength	118 kV/mm	3000 kV/in	ASTM D151-81
Dissipation Factor	0.0020	0.0020	ASTM D151-81

Processing Properties	Metric	English	Comments
Processing Temperature	105 - 171 °C	221 - 340 °F	Film Forming Surface Temperature

Descriptive Properties	Value	Comments
Resistance to Acids	No Visible Effect	2 hr Boiling
Resistance to Bases	No Visible Effect	Immersion
Weatherability	Excellent	

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