

DuPont™ Tedlar® SP TXX10AH9 Polyvinyl Fluoride Film

Category : Polymer , Film , Thermoplastic , Fluoropolymer

Material Notes:

Colored, High Gloss. Tedlar® SP polyvinyl fluoride film is designed to provide excellent conformability to substrates while maintaining the superb 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-TXX10AH9-Polyvinyl-Fluoride-Film.php

Physical Properties	Metric	English	Comments
Thickness	25.4 microns	1.00 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength	13.0 - 17.0 MPa	1890 - 2470 psi	
	@Temperature 100 °C	@Temperature 212 °F	
	20.0 - 24.0 MPa	2900 - 3480 psi	
	@Temperature 75.0 °C	@Temperature 167 °F	
	26.0 - 30.0 MPa	3770 - 4350 psi	
	@Temperature 50.0 °C	@Temperature 122 °F	
	34.0 - 43.0 MPa	4930 - 6240 psi	ASTM D882-80, Method A - 100%
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Elongation at Break	100 %	100 %	ASTM D882-80
Tear Strength	550 kN/m	3140 pli	Graves, MD; ASTM D1004
	550 kN/m	3140 pli	Graves, TD; ASTM D1004

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 %	<= 2.0 %	ASTM D1204-78
	@Temperature 170 °C	@Temperature 338 °F	

Thermal Properties	0.60 % Metric	0.60 % English	Comments
	@Temperature 50.0 °C, Time 1800 sec	@Temperature 122 °F, Time 0.500 hour	
	1.2 %	1.2 %	
	@Temperature 100 °C, Time 1800 sec	@Temperature 212 °F, Time 0.500 hour	
	1.6 %	1.6 %	
	@Temperature 150 °C, Time 1800 sec	@Temperature 302 °F, Time 0.500 hour	

Optical Properties	Metric	English	Comments
Gloss	57 %	57 %	20°; Gardner
	81 %	81 %	60°; Gardner
	93 %	93 %	85°; Gardner

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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