

DuPont™ Tedlar® SP TTR10AH9 Transparent Polyvinyl Fluoride Film

Category : Polymer , Film , Thermoplastic , Fluoropolymer

Material Notes:

Transparent, 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-TTR10AH9-Transparent-Polyvinyl-Fluoride-Film.php

Physical Properties	Metric	English	Comments
Moisture Absorption at Equilibrium	0.50 %	0.50 %	ASTM D570
Moisture Vapor Transmission	0.750 cc-mm/m ² -24hr-atm	1.90 cc-mil/100 in ² -24hr-atm	ASTM E96E-80
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%
Elongation at Break	200 %	200 %	ASTM D882-80
Coefficient of Friction	0.21	0.21	Film: Metal; ASTM D1894
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
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	MD and TD; ASTM D696-79
Specific Heat Capacity	1.01 J/g-°C	0.241 BTU/lb-°F	DuPont 990 test
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
	0.80 %	0.80 %	

Thermal Properties	Metric	English	Comments
	@Temperature 50.0 °C, Time 1800 sec	@Temperature 122 °F, Time 0.500 hour	
	1.5 %	1.5 %	
	@Temperature 100 °C, Time 1800 sec	@Temperature 212 °F, Time 0.500 hour	
	1.8 %	1.8 %	
	@Temperature 150 °C, Time 1800 sec	@Temperature 302 °F, Time 0.500 hour	

Optical Properties	Metric	English	Comments
Refractive Index	1.46	1.46	ASTM D542-50
Haze	0.60 %	0.60 %	Internal; Gardner
	2.6 %	2.6 %	Total; Gardner
Gloss	57 %	57 %	20°; Gardner
	81 %	81 %	60°; Gardner
	93 %	93 %	85°; Gardner
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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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