

DuPont™ Tedlar® TTR10BG3 Transparent Polyvinyl Fluoride Film

Category : Polymer , Film , Thermoplastic , Fluoropolymer

Material Notes:

Properties of DuPont™ Tedlar® polyvinyl fluoride (PVF) biaxially oriented film include excellent resistance to weathering, outstanding mechanical properties, and inertness towards a wide variety of chemicals, solvents, and staining agents. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Tedlar-TTR10BG3-Transparent-Polyvinyl-Fluoride-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D1505
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	ASTM D570
Moisture Vapor Transmission	0.770 cc-mm/m ² -24hr-atm	1.96 cc-mil/100 in ² -24hr-atm	ASTM E96
Thickness	25.4 microns	1.00 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	>= 95 %	>= 95 %	ASTM D882
Secant Modulus, MD	2.08 GPa	301 ksi	ASTM D822
Impact	77.9	77.9	kJ/m; Spencer; ASTM D3420
Coefficient of Friction	0.21	0.21	Film: Metal; ASTM D1894
Tear Strength	163 kN/m	930 pli	Graves (initial), MD; ASTM D1004
	185 kN/m	1060 pli	Graves (initial), TD; ASTM D1004
Elmendorf Tear Strength, MD	0.756 g/micron	19.2 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	0.685 g/micron	17.4 g/mil	ASTM D1922
Film Tensile Strength at Break, MD	>= 89.6 MPa	>= 13000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 µm/m-°C	39.4 µin/in-°F	TD; ASTM D696
	@Temperature 50.0 - 70.0 °C	@Temperature 122 - 158 °F	
	88.0 µm/m-°C	48.9 µin/in-°F	MD; ASTM D696
	@Temperature 50.0 - 70.0 °C	@Temperature 122 - 158 °F	

Specific Heat Capacity Thermal Properties	1.01 J/g·°C Metric	0.241 BTU/lb·°F English	DuPont 990 test 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	<= 5.0 % @Temperature 170 °C	<= 5.0 % @Temperature 338 °F	TD; ASTM D1204

Optical Properties	Metric	English	Comments
Refractive Index	1.46 @Temperature 30.0 °C	1.46 @Temperature 86.0 °F	n _D ; Abbe Refractometer; ASTM D-542
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Descriptive Properties	Value	Comments
Aging in Air	> 3000 hours to embrittlement	300°F Oven

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