Ajedium™ Films -- Veradel® PES 201 NT

Polyethersulfone

Solvay Specialty Polymers

Message:

Veradel® PES 201 NT polyethersulfone is a tough, high-strength thermoplastics that are suitable for continuous use up to 356°F (180°C).
Veradel® film is resistant to oxidation and hydrolysis and withstand prolonged exposure to high temperatures and repeated sterilization. Veradel® 201 NT polyethersulfone films are highly resistant to mineral acids, alkali and salt solutions. Their resistance to detergents and hydrocarbon oils is good, but they will be attacked by polar solvents such as ketones, chlorinated hydrocarbons, and aromatic hydrocarbons.
Electrical properties of Veradel® PES films are stable over a wide temperature range and after immersion in water or exposure to high humidity.
The film is transparent, a light amber color.

General Information			
Features	Electron beam disinfection		
	High strength		
	Good disinfection		
	Anti-gamma radiation		
	Antioxidation		
	alkali resistance		
	Heat resistance, high		
	Hydrolysis resistance		
	acid resistance		
	Good toughness		
	Compliance of Food Exposure		
Uses	Battery		
	Electrical/Electronic Applications		
	Electrical components		
	Home appliance components		
	Automotive Electronics		
	Food service sector		
Agency Ratings	FDA 21 CFR 177.1655		
	NSF Not Rated		
RoHS Compliance	RoHS compliance		
Appearance	Amber		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.37	g/cm^3	ASTM D792
Water Absorption (24 hr)	0.50	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tear Resistance	116000	J/m	ASTM D1004
Area coefficient	142	$ft^2/lb/mil$	

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested			
-- [1]	50	µm	
--	50	µm	
-- [2]	130	µm	
secant modulus			ASTM D882
MD	2100	MPa	ASTM D882
TD	2090	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	71.3	MPa	ASTM D882
TD: Yield	71.4	MPa	ASTM D882
MD: Fracture	66.3	MPa	ASTM D882
TD: Fracture	65.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield	7.7	%	ASTM D882
TD: Yield	7.5	%	ASTM D882
MD: Fracture	140	%	ASTM D882
TD: Fracture	140	%	ASTM D882
Dart Drop Impact	390	g	ASTM D1709
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	220	°C	ASTM D648
CLTE - Flow	5.6E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength	180	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.50		ASTM D150
Dissipation Factor (1 kHz)	1.0E-3		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	39	%	ASTM D2863
Additional Information			

Standard Thicknesses and Widths
Widths are available from 22" (559 mm) to 56" (1422 mm).
Products with widths 56 inches are available upon request.
Tolerances for widths are +/- 4mm.
For PES film, the standard thicknesses are 25 microns (1 mil) to 1016 microns (40 mil).
Surface Finishes
Standard surface finish is P/M (polished / matte).
Custom finishes of P/P (polished / polished) and M/M (matte / matte) are available.
Packaging
Film is supplied in a roll form of high quality, cardboard core of 3" (76mm) or 6" (152mm).
PVC cores are available upon request in 3" and 6" sizes.
Labeling
Products are labeled to comply with national and international standards.
Labels include product grade, unique batch number, roll length, roll width, product thickness, and net weight.

NOTE	
1.	Impact properties

2.	Tear properties

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China