

APICAL 500AV

Thermoset Polyimide

Kaneka Corporation

Message:

APICAL 500AV is a Thermoset Polyimide material. It is available in North America.

Important attributes of APICAL 500AV are:

Flame Rated

Chemical Resistant

Good Dimensional Stability

Good Flexibility

Typical applications include:

Adhesives/Tapes

Electrical/Electronic Applications

Film

Wire & Cable

General Information			
UL YellowCard	E48854-100128664		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Flexibility		
Uses	Film		
	Insulation		
	Printed Circuit Boards		
	Tape		
Appearance	Natural Color		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ASTM D1505
Molding Shrinkage - Flow	4.0E-3	%	ASTM D955
Water Absorption (24 hr)	2.9	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Static)	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	130	μm	
Secant Modulus - 1% Secant, MD	3170	MPa	ASTM D882
Tensile Strength - MD (Break)	241	MPa	ASTM D882
Tensile Elongation - MD (Break)	95	%	ASTM D882
Elmendorf Tear Strength - MD	40	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Specific Heat	1100	J/kg/°C	ASTM C351

RTI Elec (0.125 mm)	240	°C	UL 746
RTI Str (0.125 mm)	200	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+14	ohms·cm	ASTM D257
Dielectric Strength	140	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.40		ASTM D150
Dissipation Factor (1 kHz)	1.4E-3		ASTM D150
Hot-wire Ignition (HWI) (0.125 mm)	120	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.125 mm)	V-0		UL 94
Oxygen Index	38	%	ASTM D2863

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