

## UBE UPILEX VT Polyimide Film

Category : Polymer , Film , Thermoset , Polyimide, TS , Polyimide, Thermoset Film

### Material Notes:

Description: UPILEX, the ultra-high heat-resistant polyimide film, is the product of the polycondensation reaction between biphenyltetracarboxylic dianhydride (BPDA), of which process Ube Industries originally developed, and diamine. Most notable of these characteristics is UPILEX's physical, mechanical, electrical, and chemical properties under high-temperature conditions. UPILEX VT is a heat bonding type of polyimide film without using adhesive and applicable with various substrate material. Features: Heat bonding ability with ceramics, silicon wafers, and metals Bonding temperature : 300°C Excellent characteristics as polyimide film Applications: FPCHDD Suspension Ceramics Lamination Metal substrate PCB Sheet heater Micro Machine Information provided by UBE.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_UBE-UPILEX-VT-Polyimide-Film.php](http://www.lookpolymers.com/polymer_UBE-UPILEX-VT-Polyimide-Film.php)

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	54 %	54 %	25°C; ASTM D882
	74 %	74 %	300°C; ASTM D882
Secant Modulus, MD	1.765 GPa	256.0 ksi	300°C; ASTM D882
	6.67 GPa	967 ksi	25°C; ASTM D882
Film Tensile Strength at Break, MD	98.1 MPa	14200 psi	300°C; ASTM D882
	313.8 MPa	45510 psi	25°C; ASTM D882

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D233
	@Temperature 20.0 - 200 °C	@Temperature 68.0 - 392 °F	
Shrinkage	0.100 %	0.100 %	JIS C2318
	@Temperature 200 °C, Time 7200 sec	@Temperature 392 °F, Time 2.00 hour	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Dielectric Constant	3.2	3.2	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	200 kV/mm	5080 kV/in	25 $\mu\text{m}$ ; ASTM D149

## **Contact Songhan Plastic Technology Co.,Ltd.**

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