

# DIANIUM MS-9002

DIANIUM is a flame retardant electric insulation sheet in non-halogen series and is qualified in UL regulation. Like heat-resistant polyvinyl chloride sheet, the sheet is available for punching and bending works. It is mainly used as an insulating material for electric and office equipment.

## Features:

- a. UL94 V-0 or UL 94VTM-0 test passed without using "Halogen"
- b. Excellent processing properties for punching and bending.
- c. Black color is available.

## Specifications:

1. Material : Modified Poly Phenylene Ether (PPE)
2. Color: Black
3. Available thickness: 0.1 ,0.2, 0.3,0.4 and 0.5mm.
4. Width: 600mm
5. Length of roll: 100~500Meters.
6. UL: 0.1mm(t) / 0.2mm(t)      UL94 VTM test passed.  
       0.3/0.4/0.5mm(t)      UL94 V-0 test passed.

## Application:

Electric insulation material for electric apparatuses.

Test Item (unit)	Test Method	Modified PPE film MS-9002 (0.3mm)	
		P	V
Tensile Strength (Mpa)	JISK- 6734	P	60.5
		V	65.6
Elongation (%)	JISK-6734	P	116
		V	155
Vicat softening temp.( )	JISK-7206	122	
Brittle Temperature ( )	ASTM-1790	-55 以下	
Water absorption (%)	JISK-7209	0.03	
Voltage Resistance	JISC-2110	1.0kV X 1min OK	
Dielectric Breakdown Voltage (kV)	JISC-2318	22.4	
Heat Shrinkage Ratio (%)	JISK-6734	P	-0.13
	(100 X 10min)	V	+0.02
	JIST-6734	P	-1.28
	(130 X 5min)	V	-0.26
Flame Resistance UL 94 V-0 Test		Passed	

Above figures are Mitsubishi's test results and are not guaranteed.