

# NITOFLON™ MPS Series

#### **Outline**

NITOFLON<sup>™</sup> MPS series are polytetrafluoroethylene (PTFE) film products with excellent heat resistance, releasability, and flexibility.

By using it as a release film in the resin encapsulation process of semiconductor chips, it helps reducing frequency of cleaning molds, the amount of solvent used, and extending the life of molds.

#### **Structure**



### Features

- Continuous use is possible in a wide temperature range of from -100°C to 260°C (recommended value), and even it can be used at higher temperatures for short periods of time.
- Excellent releasability (non-adhesiveness) and can be easily released even if it comes into contact with sticky substances.
- Available product lineups with different expansion and contraction characteristics for heat (longitudinal shrinkage, horizontal shrinkage, etc.)

## **Applications**

• Release film for resin sealing process of semiconductor chips

Notes: This data represents examples of measured values, and not guaranteed values. They do not guarantee compatibility with the applications described in these documents. Please confirm compatibility with your application prior to use. We retain all rights, including copyrights, for the contents of these documents. Copying, reprinting and use for purposes other than originally intended are strictly prohibited without our prior expressed permission.



#### **Properties**

Table 1 General Properties						
Item		Unit	MPS-10	MPS-11	MPS-13	Test method
Thickness		mm	0.05	0.05	0.05	Dial gauge
Tensile strength	MD	MPa	50	58	79	-
	TD		33	38	34	
Elongation	MD	%	300	258	120	-
	TD		310	351	335	
Coefficient of linear expansion	MD	10⁻⁰/°C	0	33	-527	-
	TD		333	186	219	
Surface roughness (Ra)		um	0.27	0.20	0.24	JIS B 0601
Adhesive tape peel strength		N/19mm	0.9	0.8	0.8	NO31B 180°Peeling strength
melting point		°C	327			
Usable temperature (Continuous use)		°C	260			
Features		_	standard	Low linear expansion	high strength high heat shrink	

Table 1 General Properties

Notes: This data represents examples of measured values, and not guaranteed values. They do not guarantee compatibility with the applications described in these documents. Please confirm compatibility with your application prior to use. We retain all rights, including copyrights, for the contents of these documents. Copying, reprinting and use for purposes other than originally intended are strictly prohibited without our prior expressed permission.