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## **Nitto Denko Corporation**

1804R05 2503R



Ultra-high molecular weight polyethylene Porous Film

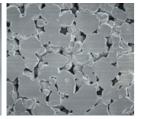
# **SUNMAP**<sup>™</sup>



# Porous sheets with excellent air permeability, sliding and cushioning properties

#### "SUNMAP™" is ...

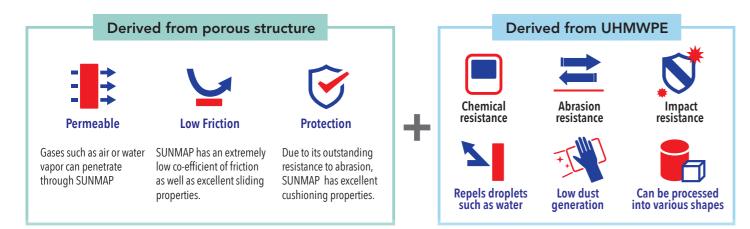




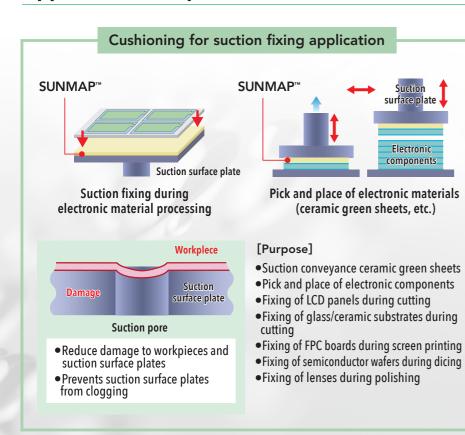
a porous sheet of an ultrahigh-molecular-weight polyethylene (UHMW-PE) produced by using Nitto Denko's uniquely developed special manufacturing method.

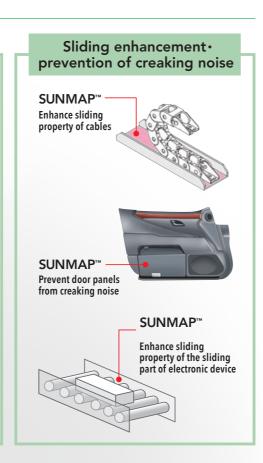
SUNMAP<sup>TM</sup>'s porous structure realizes unique properties such as air permeability, low friction, and cushioning while keeping excellent properties like chemical resistance, abrasion resistance, and impact resistance which are derived from UHMWPE.

#### Main features of SUNMAP™



## **Application examples of SUNMAP™**





#### **Characteristics**

Item	Unit	Product Number							
		LC	LC-T	LC-T5320	LC-T5320T	HP-5320	FST	FSTA	
Properties		Standard	Antistatic	Single-sided flat Antistatic	Single-sided flat Antistatic with air permeable adhesive	High air permeability Single-sided flat Antistatic	High flatness Antistatic	High flatness Antistatic with air permeable adhesive	
Structure			Antistatic treatment	Single-sided flat	Single-sided flat  Air permeable adhesive	Single-sided flat	Single-sided flat	Single-sided flat  Air permeable adhesive	
Average pore size	μm	17	17	17	17	24	8	8	
Porosity	%	30	30	30	30	38	45	45	
Thickness	mm	0.2	0.2	0.2	0.22	2.0	0.18	0.19	
Air permeability	cm³/cm²/sec	6.0	6.0	5.5	5.0	1.5	3.0	2.2	
Tensile strength	MPa	12	12	12	12	8	7	7	
Elongation	%	90	90	90	90	70	65	65	
Surface roughness(Ra)	μm	2.2	2.2	1.4	1.4	1.4	0.2	0.2	
Dynamic coefficient of friction	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Surface resistance	Ω/□	>1013	1×10 <sup>10</sup>	1×10 <sup>10</sup>	1×10 <sup>10</sup>	1×10 <sup>10</sup>	1×10 <sup>10</sup>	1×10 <sup>10</sup>	

#### Size table

Product Number	Thickness	Handing width (mm)	Street type length (mm)	Roll type (10M)	
	0.1	100 ~ 700	100 ~ 1200	0	
	0.2				
LC	0.3	100 ~ 700			
LC-T	0.5				
	1.0	100 500	100 ~ 500	×	
	2.0	100 ~ 500			
	0.2		100 ~ 500	×	
LC-T5320	0.3	100 ~ 500			
LC-13320	0.5	100 - 300			
	1.0				
LC-T5320T	0.22	450	450	×	
	0.2		Only a roll type is available	0	
LC-TW1	0.3	600 ~ 1000			
	0.5				
	0.2		600 ∼ 1200	×	
LC-TW2	0.3	600 ~ 1000			
	0.5				
HP-5320	2.0	100 ~ 400	100 ~ 500	×	
FST	0.18	200 - 400	000 400	×	
FSTA	0.19	200 ~ 400	200 ~ 400	^	