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Nitto Denko Corporation

1804R05 2503R



Ultra-high molecular weight polyethylene Porous Film

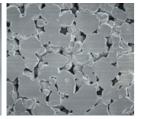
SUNMAP[™]



Porous sheets with excellent air permeability, sliding and cushioning properties

"SUNMAP™" is ...

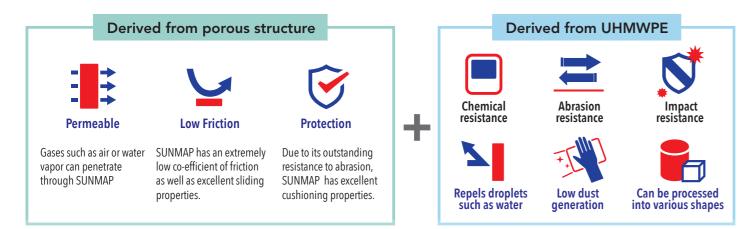




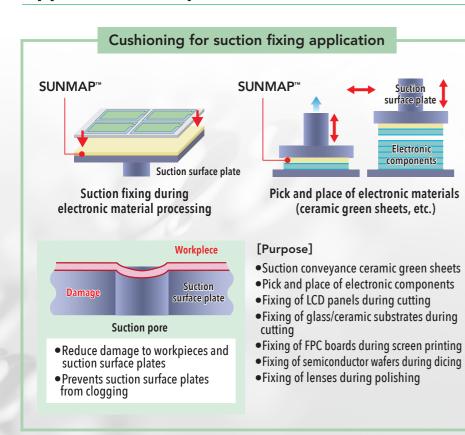
a porous sheet of an ultrahigh-molecular-weight polyethylene (UHMW-PE) produced by using Nitto Denko's uniquely developed special manufacturing method.

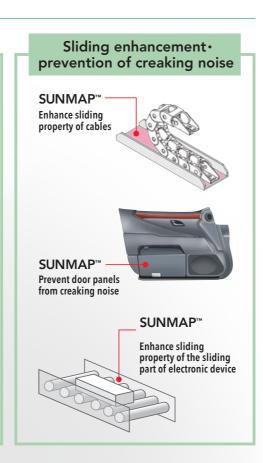
SUNMAPTM's porous structure realizes unique properties such as air permeability, low friction, and cushioning while keeping excellent properties like chemical resistance, abrasion resistance, and impact resistance which are derived from UHMWPE.

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 ¹⁰	1×10 ¹⁰	1×10 ¹⁰	1×10 ¹⁰	1×10 ¹⁰	1×10 ¹⁰	

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	^	