UHMWPE POROUS MATERIAL

SUNMAP LC-T5320

Features

- As SUNMAP is a porous sintered material having an open-cell structure; it offers the excellent air and moisture permeability.
- As SUNMAP is made of porous UHMWPE having high wear resistance and low friction coefficient the slip properties of SUNMAP is enhanced.
- SUNMAP offers good chemical resistance against typical acids and alkalis.
- Antistatic
- Flat surface (single side)

Structure

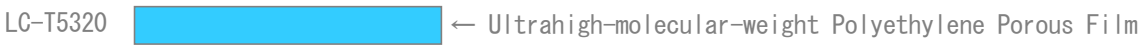

Fig. 1

Properties

Table 1. General Properties

Item	Unit	Characteristic value				Test method
Thickness	mm	0.2	0.3	0.5	1.0	—
Air permeability	$cm^3/cm^2/sec$	7.5	6.5	1.2	0.4	JIS L1096
Pore size	μm	17				—
Porosity	%	30				—
Tensile strength	MPa	12				JIS C2107
Elongation	%	90				JIS C2107
Hardness	Shore D	48				ASTM D2240
Surface Roughness（Ra）	μm	1.2（Flat surface side）				JIS B 0601
Coefficient of kinetic friction	—	0.1				JIS K7125
Surface resistance	Ω/□	1×10^{10}				JIS K7194

Product size

Table 2 Sheet type

Thickness（mm）	Width（mm）	Length（mm）
0.2	100～500	100～500
0.3		
0.5		
1.0		

Applications

- In ceramic condenser manufacturing process, SUNMAP is used as “shock-absorber”.
- In LCD manufacturing process, SUNMAP is used as “shock-absorber”.