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 alkali.
- Antistatic type
- Flat surface (single side) type

## Structure

Fig.1 Structure

## Applications

- Suction conveyance of ceramic green sheets
- Pick and place of electronic components
- Fixing of LCD panels during cutting
- Fixing of glass/ceramic substrates during cutting
- Fixing of FPC boards during screen printing
- Fixing of semiconductor wafers during dicing
- Fixing of lenses during polishing
- Enhancement of sliders of electronic equipment
- Protection of cables in cable chains and prevention of abrasion of sliders
- Prevention of creaking noise and abrasion inside cars



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## Properties

Table.1 General properties

| Property | Unit | Characteristic value | | | | Test method |
|---|---|---|---|---|---|---|
| Thickness | mm | 0.2 | 0.3 | 0.5 | 1.0 | – |
| Air permeability | $cm^3/cm^2/sec$ | 5.5 | 3.5 | 0.9 | 0.4 | JIS L 1096 |
| Pore size | μm | 17 | | | | – |
| Porosity | % | 30 | | | | – |
| Tensile strength | MPa | 12 | | | | JIS C 2107 |
| Elongation | % | 90 | | | | JIS C 2107 |
| Hardness | ショア D | 48 | | | | ASTM D2240 |
| Surface Roughness（Ra） | μm | 1.4 | | | | JIS B 0601 |
| Coefficient of kinetic friction | – | 0.1 | | | | JIS K 7125 |
| Surface resistance ratio | Ω/□ | $1\times10^{10}$ | | | | JIS K 7194 |

## Standard Products Size

Table.2 Sheet type

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



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