

UHMWPE POROUS MATERIAL

# SUNMAP HP-5320

## Features

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- 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

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HP-5320  ← Ultrahigh-molecular-weight Polyethylene Porous Film

Fig. 1

## Properties

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Table 1. General Properties

Item	Unit	Characteristic value	Test method
Thickness	mm	2.0	—
Air permeability	cm <sup>3</sup> /cm <sup>2</sup> /sec	1.5	JIS L1096
Pore size	μm	24	—
Porosity	%	38	—
Tensile strength	MPa	8	JIS C2107
Elongation	%	70	JIS C2107
Hardness	Shore D	42	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 <sup>10</sup>	JIS K7194

1/2  
HP-5320\_03E  
2017.12.4

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## Product size

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Table 2 Sheet type

Thickness (mm)	Width (mm)	Length (mm)
2.0	100~400	100~500

## Applications

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

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