UHMWPE POROUS MATERIAL

SUNMAP HP-5320

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 type
- Flat surface (single side)

Structure

←Ultrahigh-molecular-weight Polyethylene Porous Film

Fig.1 Structure

Applications

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

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Properties

Table.1 General properties

Property	Unit	Characteristic value	Test method
Thickness	mm	2.0	-
Air permeability	$cm^3/cm^2/sec$	1.5	JIS L 1096
Pore size	μm	24	-
Porosity	%	38	-
Tensile strength	MPa	8	JIS C 2107
Elongation	%	70	JIS C 2107
Hardness	Shore D	42	ASTM D2240
Surface Roughness（Ra）	μm	1.4	JIS B 0601
Coefficient of kinetic friction	-	0.1	JIS K 7125
Surface resistance ratio	Ω/□	1×10^{10}	JIS K 7194

Standard Products Size

Table.2 Sheet type

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

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