SUMIKA SUPER® S1000

High-performance Plastics

Characteristics

Heat Resistance
- Continuous use 260°C (500°F)
- Short time 400°C (752°F)

Dimension stability
- Low water absorption
- Low linear expansion coefficient

Mechanical properties
- Low creep
- Stable mechanical properties at high temperatures

Other properties and specification
- Excellent machinability
- Generates minimal burrs when machining fine precision holes.
- Organic solvent resistance, oil resistance
- Flame retardance

Applications

Probing Jig / Wire probe

IC Socket

Block of LCD probe

Standard Size

Sheet

L x W	Thickness (mm)
100x100	5, 10, 15, 20
200x200	5, 10, 20

Rod

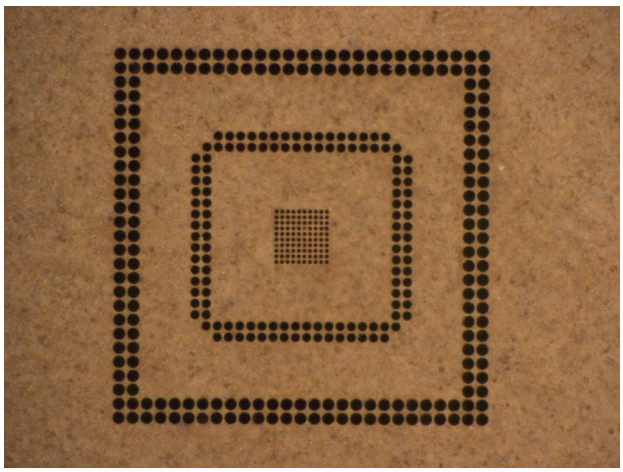
D	L (mm)
φ10, 14, 19, 24, 30	1000

PHYSICAL PROPERTIES TABLE

Property	Test method ASTM	Unit	SUMIKA SUPER® S1000
Specific gravity	D792	-	1.35
Water absorption	D570	%	0.04
Tensile strength	D638	MPa	69
Tensile elongation at break	D638	%	8
Flexural strength	D790	MPa	100
Flexural modulus	D790	MPa	3236
Compressive strength	D256	MPa	144
Izod impact strength		J/m	22
Rockwell hardness	D785	-	R124
Heat Deflection Temperature at 1.82MPa	D468	℃	300
Continuous use temperature	D648	℃	260
Linear expansion coefficient	D696	10^{-5}/℃	5.1
Volume resistivity	D257	Ω・m	10^{13}
Dielectric strength(3.2mm)	D147	MV/m	18
Arc resistance	D495	sec	127

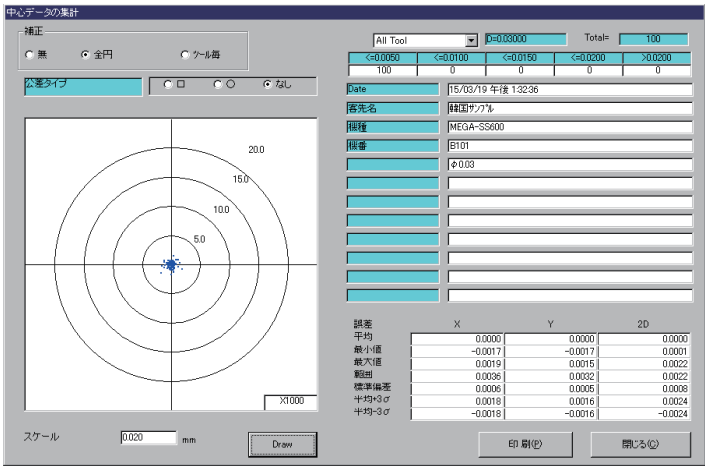
*The values given above for the properties are representative values given by the manufacturers of the raw materials, and are not guaranteed values for the product.

ACHIEVEMENT OF FINE HOLE AND PITCH DRILLING



unit: mm

Hole diameter	0.03	Thickness	0.3
Hole diameter	0.07	Thickness	0.7
Hole diameter	0.09	Thickness	0.9
Wall	0.01		
Machine name	MEGA series		



Hole pitch inspection result

100 - Φ0.03 → ±0.0024 mm

128 - Φ0.07 → ±0.0020 mm

208 - Φ0.09 → ±0.0026 mm

Inspection machine:
Mitsutoyo Quick vision

*Machined samples and data provided by ROKU-ROKU SMART TECHNOLOGY Co., Ltd.

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