This time it's teflon!!

We have revolutionized the common sense of plating.

New technology of direct plating on teflon materials with no etching.

Plating on pure teflon (PTFE)!? - honestly, we are the ones who were surprised the most.Furthermore, when we implemented copper plating on PTFE composite circuit boards -we were able to achieve the strength at a practical level of **10 N/cm and more!!!!**

The new plating technology! 【MARBS】
Industry's first!
Patent pending in 2019

No need for surface roughening!
It is posible to plate on pure teflon
which is slippery and smooth!




HOKOSHA

http://marbs.pro

The new plating technology "MARBS" is a next-generation PCB wiring technology combining two patented technologies: the "molecular bonding technology" invented by Sulfur Chemical Laboratory Co., Ltd. and PCB technology of Hokosha Co., Ltd.

With the new plating technology "MARBS" plating can be realized on special materials which are difficult to work with using existing technologies and on those with insufficient strength!

List of materials with which practical levels of strength have been achieved

PTFE resin board
※ Tetrafluoroethylene propylene: teflon

RF-60A resin board●
※ PTFE + glass fiber cloth + ceramics

CER-10 resin board●
※ PTFE + glass fiber cloth + ceramics

TLY-5A resin board●
※ PTFE + glass fiber cloth

●High frequency application materials with excellent dielectric properties and low water absorption

Special resin materials

Super engineering plastics

PPS (polyphenylene sulfide)

LCP (liquid crystal polymer)

PI (polyimide sheet) Kapton ®

Engineering plastics

PC (polycarbonate)

PPA (polyphthalamide)

General purpose plastics

PP (polypropylene)

PVC (Polyvinyl chloride)

UP (unsaturated polyester)

Good adhesion with other resin materials

Soda-lime glass

White plate glass (high grade white glass)

Blue plate glass (low grade general soda-lime glass)

B270®i (The ultra white glass by the German company Schott)

and others

Borosilicate glass (heat-resistant glass)

TEMPAX (Low alkali borosilicate glass by the German company Schott)

Quartz glass

Synthetic quartz

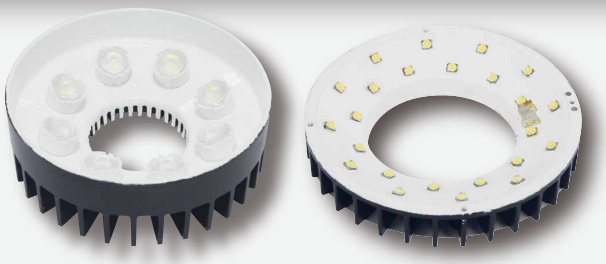
Why do not we challenge ourselves towards the future together?

We are looking for partner companies.

※ Please make inquiries using the contact information at the bottom of the page.

MARBS is a Supporting Industry Certification Project.

The project for "development of LED ring lighting using curved wiring technology to improve the inspection accuracy of visual inspection equipment" received certification as a 2017 Strategic Basic Technology Advancement Support Project (Supporting Industry).



LED ring lighting with a PCB-less structure which excels at heat dissipation
(three-dimensional wiring, three-dimensional mounting)

Introducing the molecular bonding project "Hibikino Research Center"

HOKOSHA

Official website of Hokosha www.hohkohsya.co.jp

Headquarters:
2-7-30 Kamitozu, Kokurakita-ku, Kitakyushu, Fukuoka Prefecture, 803-0845
TEL.093-581-4471 FAX.093-581-0380

Hibikino Research Center:
1-8 Hibikino, Wakamatsu-ku, Kitakyushu, Fukuoka Prefecture, 808-0135
Kitakyushu Industry and Science Promotion Organization Commercialization Support Center, No.507
TEL.093-482-5650

Contact information for inquiries about MARBS

marbs@hohkohsya.co.jp

Persons in charge
Fumoto
Kinoshita

MARBS Official Website ▶ http://marbs.pro ※Written in Japanese

50 years since the foundation. We engage in printed circuit board design, manufacturing and mass production in Fukuoka, Kyushu and conduct development and sales of ultra high precision clamp type DC sensors, pulse sensors, clamp meters, next generation eco lighting CCFLs and LEDs.