CHIYODA INTEGRE CO.,LTD.

液晶聚合物薄膜
Liquid Crystal Polymer (LCP) Film

千代田インテグレ株式会社
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PELLICULE

ペリキュールLCP
PELLICULE LCP

以特殊成形方法、分子配向控制技术来
实现液晶聚合物树脂的薄膜化 !!

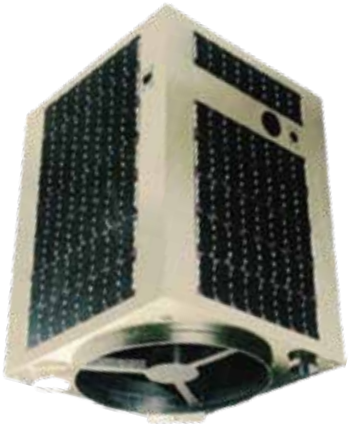
Creation of LCP film using special molding methods and control of molecular orientation.

液晶聚合物薄膜

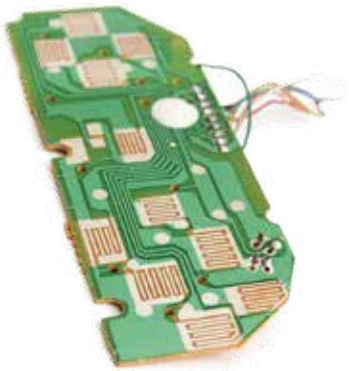
卓越的耐热及绝缘！　以原料颗粒来进行薄膜化加工

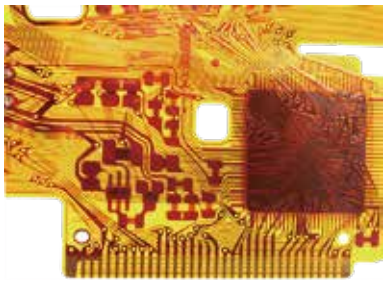
Liquid Crystal Polymer (LCP) Film

Exceeding in heat-resistance and insulation!　Film processed from pellets



特殊耐热绝缘材
Special heat-resistant insulating material





耐热工程材料
Heat-resistant process material

- 机械特性及电气特性优良
- 不含卤素成分
- 耐热性优良
- 阻气性优良
- 吸水率极低
- 介电特性优良
- 气体产生量极低
- 标准厚度为 0.050mm

- Excellent mechanical and electrical properties
- Halogen-free
- Excellent heat-resistant properties
- Excellent gas barrier properties
- Extremely low water absorption
- Excellent dielectric properties
- Extremely low outgassing
- Standard thickness 0.050mm

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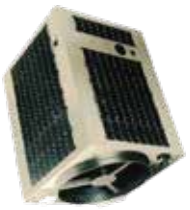
用途示例
Usage

高耐热性
Heat resistance

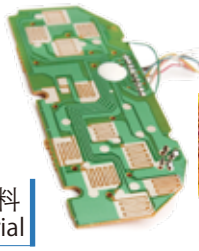
高绝缘性
High insulation



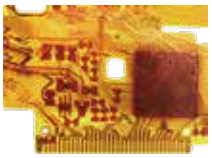
特殊耐热绝缘材
Heat-resistant insulation

人造卫星
Satellite

工程材料
Process material



高耐热性
Heat-resistance



耐热性工程材料
Heat-resistant process material

PELLICULE LCP

毫米波雷达
Millimeter-wave radar

次世代通信
5G communications

介电率低
Low Dk

高速传输高频机器
High-speed transmission
High-frequency equipment

介电损耗低
Low Df

次世代通信装置用电路板材料
Base material for high speed and high-frequency applications

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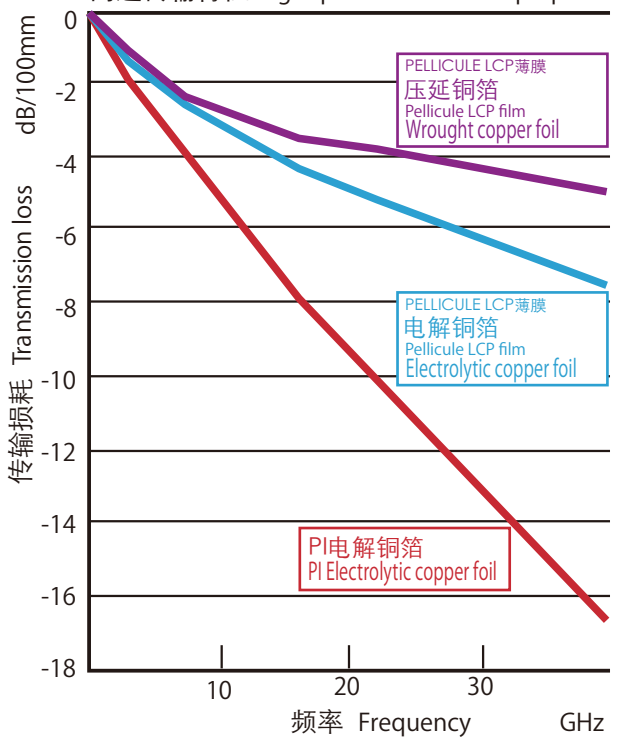
物性　Physical properties

试验项目　Items	单位　Unit	测量值　Value
抗拉强度 Tensile strength	MPa	290
熔點 Melting temperature	℃	280
绝缘破坏强度 Dielectric strength	KV/mm	210
体积电阻率 Volume resistivity	Ω・cm	2 x 10^{16}
相对介电常数(1GHz) Dielectric constant	—	≦3.0
介电损耗(1Ghz) Dielectric dissipation factor	—	≦0.002

※所记载的数值均为测定值，并非保证值。
The above value is measured value, and it's not guaranteed value.

高速传输特性 High speed transmission properties



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