



# PELLICULE

## ペリキュールLCP

### PELLICULE LCP

以特殊成形工法、分子配向控制技術來實現液晶聚合物樹脂的薄膜化 !!

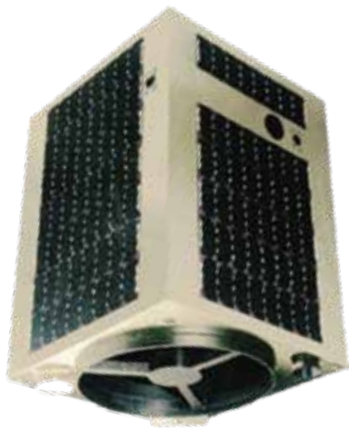
Creation of LCP film using special molding methods and control of molecular orientation.

# 液晶聚合物薄膜

卓越的耐熱及絕緣！ 以原料顆粒來進行薄膜化加工

Liquid Crystal Polymer (LCP) Film

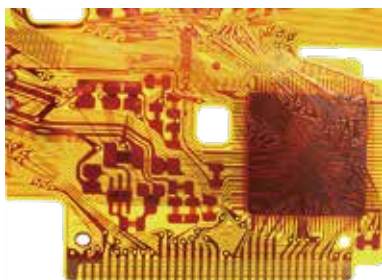
Exceeding in heat-resistance and insulation! Film processed from pellets



特殊耐熱絕緣材  
Special heat-resistant insulating material



耐熱工程材  
Heat-resistant process material



- 機械特性及電氣特性優良
- 不含鹵素成分
- 耐熱性優良
- 阻氣性優良
- 吸水率極低
- 介電特性優良
- 氣體產生量極低
- 標準厚度為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



用途範例  
Usage



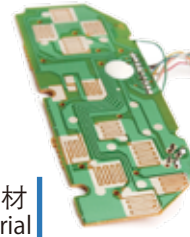
高耐熱性  
Heat resistance

高絶縁性  
High insulation



人造衛星  
Satellite

特殊耐熱絶縁材  
Heat-resistant insulation



工程素材  
Process material

高耐熱性  
Heat-resistance



耐熱性工程素材  
Heat-resistant process material



低介電率  
Low Dk

毫米波雷達  
Millimeter-wave radar

高速傳輸高頻機器  
High-speed transmission  
High-frequency equipment

次世代通訊  
5G communications



次世代通訊裝置用電路板材料  
Base material for high speed and high-frequency applications



低介電損耗  
Low Df

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Liquid Crystal Polymer (LCP) Film

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

物性 Physical properties

試驗項目 Items	單位 Unit	測量值 Value
抗拉強度 Tensile strength	MPa	290
熔點 Melting temperature	°C	280
絕緣破壞強度 Dielectric strength	KV/mm	210
體積電阻率 Volume resistivity	$\Omega \cdot \text{cm}$	$2 \times 10^{16}$
相對介電常數(1GHz) Dielectric constant	—	$\leq 3.0$
介電損耗(1Ghz) Dielectric dissipation factor	—	$\leq 0.002$

※所記載之數值乃為測定值，並非保證值。  
The above value is measured value, and it's not guaranteed value.

高速傳輸特性 High speed transmission properties

