Suitable for a flexible high-speed cable using for a mobile phone, tablet, notebook PC, mobile terminals.

- Digital-signal-transmission standard examples: SATA、USB、EDP、MIPI

Usage examples

<table>
<thead>
<tr>
<th>Material structure</th>
<th>Usage examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coverlay type</td>
<td></td>
</tr>
<tr>
<td>CNSY</td>
<td></td>
</tr>
<tr>
<td>Adhesive sheet type</td>
<td></td>
</tr>
<tr>
<td>SAFY</td>
<td></td>
</tr>
</tbody>
</table>

※Adhesive layer of CNSY、SAFY is same composition
1. **Low Dk/Low Df**
   - $Dk = 2.6$, $Df = 0.005$ (1~10GHz)
   - Adhesives performance

2. **High adhesiveness**
   - Vs Copper ($\geq 1.0N/mm$), Vs Polyimide ($\geq 0.7N/mm$),
     Vs LCP ($\geq 0.9N/mm$)

3. **Good press processability**
   - Lamination press temperature is over 160°C.
   - Quick press process is available.

4. **Good flame retardancy**
   - Independent configuration of Coverlay Equivalent to UL94 VTM-0

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**Transmission loss of FPC using microstrip line**

<table>
<thead>
<tr>
<th>Test item</th>
<th>Test condition</th>
<th>CNSY</th>
<th>CISV (General material)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dk*</td>
<td>10GHz</td>
<td>2.6</td>
<td>3.3</td>
</tr>
<tr>
<td>Df*</td>
<td>10GHz</td>
<td>0.005</td>
<td>0.025</td>
</tr>
</tbody>
</table>

※Adhesives performance

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**Coverlay film**

- 1. CNSY
- 2. CISV (General material)

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**Graph:**

- Frequency (GHz)
- Transmission loss (dB)

**Specifications:**

- Impedance: $90 \Omega$
- Line length: 100mm
- Line thickness: 0.032mm
- Line width: 0.11mm
- Line and space: 0.14mm

*NIKKAN INDUSTRIES CO., LTD.*