# 电线包覆用PPS

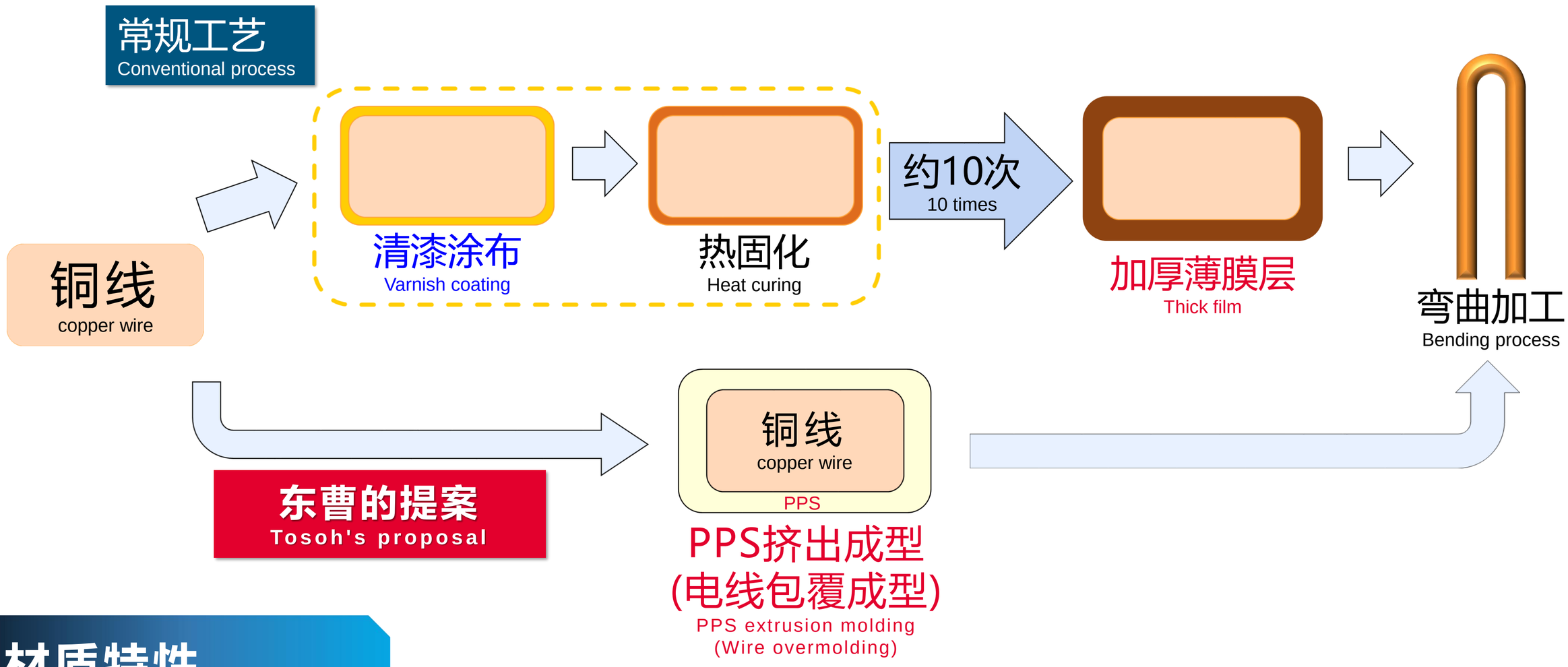
## PPS for electric wire covering

## 开发背景・理念
concept

为了实现更小尺寸和更高功率的输出，xEV驱动电机电线已改为扁平线
Electric wire for xEV motor is shifting to flat type for making motor smaller and power higher.

现行的电线包覆是反复进行聚酰亚胺清漆涂布和热固化，以增加厚度并提供绝缘性
Insulation layer of wire is made by coating polyimide and cure repeatedly. Getting thick insulation layer need to repeat coating/curing at least 10 times.

→对于PPS材料，只需要一道挤出工序。过缩短工序实现成本降低。
PPS coating by extrusion need only one process. Reduce cost by converting to simple process.




## 材质特性
Material properties

源自PPS的高耐热性
PPS have high heat resistance

高柔软性
High softness

低介电常数（耐绝缘性）
Low relative permittivity (insulation resistance)

| 指 标<br>Test | 单 位<br>Unit | 试验方法<br>Method | 开发材<br>Development PPS |
|---|---|---|---|
| 熔点<br>Melting point | ℃ | JIS K 7121 | 280 |
| 弯曲断裂应变<br>Bending fracture strain | % | JIS K 7171 | > 25 |
| 绝缘破坏强度<br>Electric strength | kV/mm | IEC 60243-1 | 37 |
| 相对介电常数<br>Relative permittivity | - | IEC 60250 | 2.73 |

以上表格中所列出的数据只是基于标准测试的测试值或者典型值，并非保证值。

## 客户利益
Customer benefits

缩短制造工序，降低电线制造成本
Reduce cost by shortening the manufacturing process dramatically

降低电线制造过程中的碳排放
Reduce $CO_2$ emissions by shortening the manufacturing process

无需溶剂，改善工作环境并减少对环境的影响
Improving the working environment and environmental impact by using no solvent process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