inkanto®

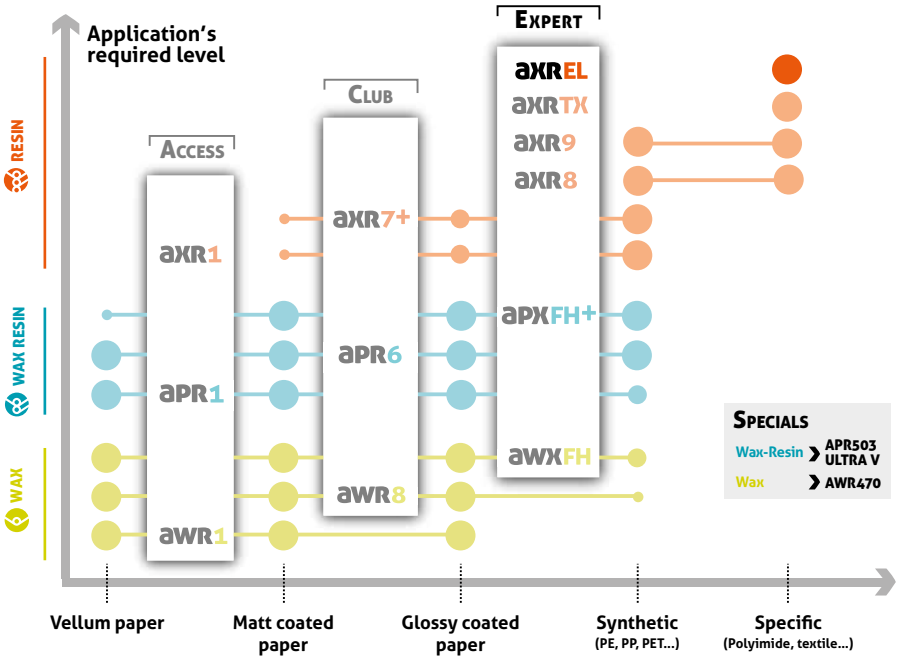
Thermal Transfer by ARMOR

**SPECIALTY RESIN FOR FLAT HEAD PRINTERS**

# AXR EL

**The specialty resin for printed circuit boards**

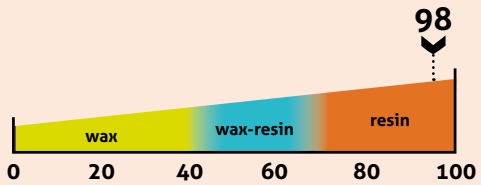
**AXR®EL has been specially designed to meet ARMOR's high-quality standards,** offering optimum durability in line with the highly specific demands of electronic products, particularly printed circuit boards.



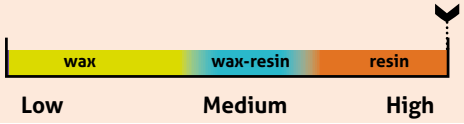

## Printing receptor

| synthetics | | specific | |
|---|---|---|---|
| PET | ●●● | Polyimide | ●●● |
| | | Acrylate | ●●● |

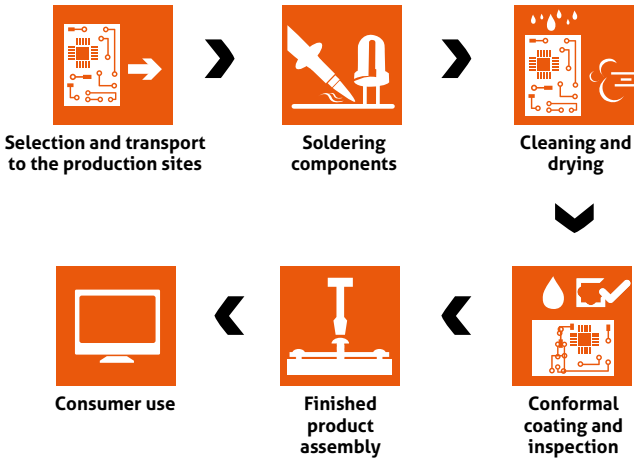
## Print resistance




## Energy




## product life cycle




## Compliant with the following regulations

- **IPC A-610**
- **EN 50419**
- **REACH / SVHC** 1907/2006/EC
- **Food Contact** 1935/2004/EC
- **Heavy metals** 2011/65/EU
- **California Proposition 65**
- **Halogen restrictions**

## Environmental performance

### Manufacturing process

**PET Waste** 100% recovered
**Solvent** 91% recovered into factory energy
**Electricity** 58% from renewable sources

More environmental details here

# SPECIALTY RESIN FOR FLAT HEAD PRINTERS

## AXREL

## Application fields

**PCB and electronic sub-assemblies**






## Product performance

### print quality

| | | |
|---|---|---|
| 90°Barcode 95 | Small characters 100 | Logos 100 |
| 0°Barcode 100 | 2D Barcode 100 | Blackness 1,8 ODR* |

*Optical Density by Reflection, measured using a densitometer.

### technical resistances

**Solvents**

Rubtester: 939g, no damage after ... cycles :

| | | | |
|---|---|---|---|
| IPA: | 150 | Atron: | 200 |
| Mineral Spirit: | 50 | Aquanox: | 150 |

**Drying**

*The barcodes remain legible with an A-grade under ANSI standard for barcode readability.*
*Laboratory tests performed under simulated real-life conditions.*

**Temperature**

*The print remains perfectly legible to high temperatures. Tested up to 300°C/572°F.*

**Rubbing**

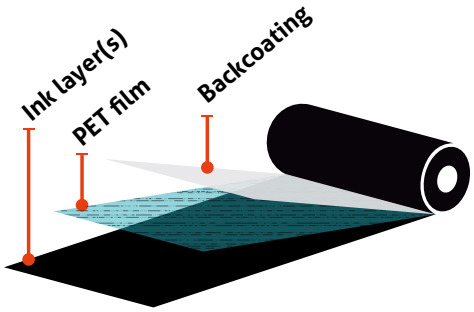
*No degradation recorded after rubbing with an abrasive 16mm pad with an applied weight of 450g/cm² for 10 cycles.*

**Conformal Coating**

*The print remains intact after conformal coating (A thin polymeric film which conforms to the contours of a printed circuit board to protect the boards components).*

## Product physico-chemical features

### product structure




| | |
|---|---|
| **PET film** | Thickness: 4,5 µm |
| **Ink** | Resin |
| Melting point | 75°C/167°F |
| **Backcoating** | Silicon based |
| Coefficient of Friction | Kd < 0.2 |
| **Ribbon thickness** | < 8 µm |
| The ribbon is anti static build-up treated | |

## Storage

### storage conditions

12 months recommended

20-80 % Humidity Rate, 5-35°C (40-95°F)

## Waste management

inkanto rolls and their packaging allow an optimised waste management. For more information please contact ARMOR.

04/21