



TECHNICAL SPECIFICATION

AKYPRINT® light UV 3R 3 mm 750 g/m²

- ▶ **Description : bubble structure polypropylene copolymer extruded**
Contains at least 25% of recycled polypropylene

| Product | Treatment * | Thickness (mm) | Weight gr/sqm | Density | Colour |
|-----------|-------------|----------------|---------------|---------|--|
| Akyprint® | Corona UV | 3.0± 0.2 | 750±75 | 0.25 | White opaque outside/ recycling material inside |

*others on request

| Description | Diameter (mm) | Colour |
|-------------|---------------|-------------------|
| Bubbles | 4 | Dark grey / Black |

▶ Item

| | Dimension (mm) | Tolerance |
|------------|----------------|-----------|
| Width | 2050 | +/- 2 mm |
| Length | 3050 | 0/+16 mm |
| Squareness | | 3 mm / m |

▶ Logistic details

| | |
|---------------------|---|
| Nr of piece/pallet | 150 |
| Dimension of pallet | 2050 x 3050 x 620 |
| Protection | Wood pallet + SPC bottom and cover + PP Corners + PE stretch foil |
| Storage | Inside, dry place, 2 pallets on 1 maxi |

▶ Treatment

| | Method | Unit | Value | Result |
|----------------|--------------|------|-------|-----------|
| Corona | Sherman pens | mN/m | ≥ 38 | 6 months |
| Anti-static | On request | | | |
| Fire retardant | On request | | | |
| UV treatment | Internal | | | 18 months |

▶ Printing

| | 2 sides | 1 side |
|---------------|---------|--------|
| Silkscreen UV | X | X |
| Digital UV | X | X |

In order to protect better the printing results, we recommend to apply an additional varnish over the inks.

▶ Converting

- Gluing (hot melt: PP or polyurethane reactive)
- Welding
- Screwing
- Riveting
- Cutting (guillotine, die cut, laser, knife, plotter)

▶ Regulations

- Conformity with: Heavy metal (RoHS, 94/62/EC); REACH / SVHC; ELV (n°2000/53/CE)
- Food contact: please consult us

This information is provided for general information only. It shall, in no event be held to constitute or imply any warranty, undertaking express or implied commitment from our part.

▶ **Mechanical properties of raw material***

| Property | Method | Unit | Result |
|------------------------------|-----------|--------------------|--------|
| Tensile Strength at Yield | ISO 527-2 | M Pa | 25 |
| Elongation at Yield | ISO 527-2 | % | 7 |
| Flexural modulus | ISO 178 | MPa | 1100 |
| Izod Impact Strength | | | |
| At 23°C | ISO 180 | KJ /m ² | 18 |
| At -20°C | | | 5.5 |
| Melt Flow Index 230°C/2.16kg | ISO 1133 | g/10min | 3.5 |

▶ **Mechanical properties of final product**

| Property | Method | Unit | Result |
|--|----------|-------------------|-----------|
| Flexural Break Resistance (Distance between fulcrums: 100 mm, test speed 5 mm/m, sample: 40x200 mm) | ISO 178 | N/mm ² | > 4.3 |
| Compression Resistance | ISO 3035 | % | < 30 |
| Deformation by 1000 kPa Pressure | | | |
| Dimensional variation 22H, 70°C | Internal | % | < 0.5 |
| Impact resistance at -30° C and 23 °C (steel ball 500 g, falling height: 250 mm) | Internal | | no effect |

▶ **Thermal properties of raw material***

| Property | Method | Unit | Result |
|-------------------------------|----------|--------|--------|
| Melting point | ISO 3146 | °C | 165 |
| Heat Deflection Temperature | | | |
| 1.80 MPa - 120°C per hour | ISO 75-2 | °C | 50 |
| 0.45 MPa - 120°C per hour | | | 92 |
| Flash point | | °C | 350 |
| Auto ignition temperature | | °C | > 380 |
| Thermal expansion coefficient | | mm/m°C | 0,11 |

*Extracted from the polypropylene Heterophasic Copolymer raw material data sheet

▶ **Chemical resistance**

Polypropylene has good chemical inertness and good resistance to cracking under stress. It has no solvent at 20°C. Very resistant to mineral and organic products; it is neither affected by water solutions of mineral salts, nor by chemical bases and mineral acids at temperatures lower than 60°C, except very strong acids. Not resistant to substances with an oxidizing effect or to certain solvents. Details can be supplied on request.

▶ **Environment**

Polypropylene is persistent in the environment and is not biodegradable.

▶ **Recycling properties**

Hereby, we confirm that our products are based on polypropylene copolymer and are 100% recyclable by following methods:

▶ **Mechanical recycling**

Mechanical recycling must be the preferred way.

Polypropylene can easily be recycled for extrusion purpose for example.

Our own wastes of production are crushed in order to be re-injected in our extrusion machines.

our products wastes have to be separated from other wastes in order to improve the recycling.

We have the possibility to collect the wastes from our customers. Please contact us for more information.

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▶ **Thermal recycling or incineration**

Our products can be recycled by thermal recycling process.

The heat produced can then be used as substitutes for oil, gas and coal or to generate energy at power plants.

The calorific gain from polypropylene in an energy recovery process is 24 MJ/kg

▶ **Complementary information:**

- Dispose of in accordance with relevant local regulations. Do not discharge the product into the environment.

- Recycling identification code: 5



- Our products are not suitable for composting

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