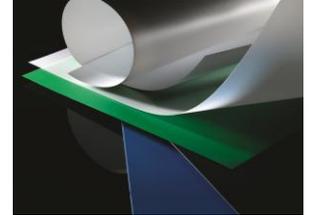


TECHNICAL SPECIFICATION

AKYPLEN[®] Rigid 0,5 mm



► Description : solid polypropylene extruded

Product	Treatment *	Thickness (mm) *	Weight gr/sqm	Density	Colour
Akyplen [®] Rigid	Corona	0,5 ± 0,01	550	1.1	white

*others on request

► Item

	Dimension (mm) *	Tolerance
Width	700*	+/- 2 mm
Length	1000*	0/+4 mm
Squareness		2 mm / m

*others on request

► Logistic details

Nr of piece/pallet	2000
Dimension of pallet	700 x 1000 x 1150mm
Protection	Wood pallet + PP Corners + PE stretch foil
Storage	Inside, dry place, 1 level

► Treatment

	Method	Unit	Result	Result
Corona	Sherman pens	mN/m	≥ 38	6 months
Anti-static	On request			
UV treatment	On request			

► Printing

	2 sides	1 side
Offset UV	X	X
Silkscreen UV	X	X
Digital UV	X	X

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

► Converting

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

► Regulations

- Conformity with: Heavy metal (RoHS, 94/62/EC); REACH / SVHC)
- Food contact: please consult us

▶ **Mechanical properties of raw material***

Property	Method	Unit	Result
Tensile Strength at Yield	ISO 527-2	M Pa	40
Elongation at Yield	ISO 527-2	%	7
Flexural modulus	ISO 178	MPa	2000
Charpy Impact Strength At 23°C	ISO 179	KJ /m ²	5.5

▶ **Thermal properties of raw material***

Property	Method	Unit	Result
Melting point	ISO 3146	°C	165°C
Flash point		°C	350
Auto ignition temperature		°C	> 380
Thermal expansion coefficient		mm/m°C	0,1

*Extracted from the polypropylene 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**

▶ **Thermal recycling or incineration**

The heat produced can then be used as substitutes for oil, gas and coal or to generate energy at power plants. The complete combustion of polypropylene with air only produces carbon dioxide and water. At higher temperatures traces of nitrogen oxide are present.

The incomplete combustion of polypropylene produces soot, carbon dioxide and monoxide, and several carbon, hydrogen and oxygen compounds. Unburnt substances or additional products may be released.

The same by-products are also released during the combustion of natural materials such as wood or wool.

▶ **Mechanical recycling**

Polypropylene wastes can easily be recycled. They are collected, separated, milled, melted and extruded in granules in order to be re-injected in our process. We can reuse our own wastes and also the wastes of our customers.

▶ **Complementary information:**

Industrial waste number EC for PP: plastics (16 10 19, 17 02 03 & 20 01 39)



The information in this document is given for guidance only and is not contractual. The Producer reserves the right to develop the product and afferent technical characteristics. This information given in good faith does not commit us to any guarantee with respect to specific conditions for use.