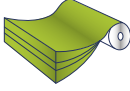
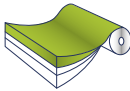


## Clear Polypropylene Overall Properties

	Property	Units	Value (approx)	Standard
	Grammage	g/m <sup>2</sup>	124	ISO 536
	Total Caliper	µm	116	ISO 534
	Minimum Application	°C	0	
	Service Temperature	°C	-30 to 80	

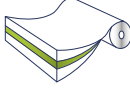
Clear PP is ideal for creating visually sophisticated, glossy, opaque labels. The pearlescent appearance of the film enhances the elegance of the labels as well as for applications demanding resistance to chemicals or weather.

## Face

	Property	Units	Value (approx)	Standard
	Grammage	g/m <sup>2</sup>	46	ISO 536
	Caliper	µm	50	ISO 534
	Tensile strength (MD)	N/mm <sup>2</sup>	95	ISO 527
	Tensile strength (CD)	N/mm <sup>2</sup>	200	ISO 527
	Surface gloss 45°	GU	90	ISO 2813
	Opacity	%	93	DIN 53417

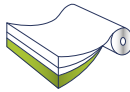
Thanks to its specialised surface treatment, the glossy finish of Clear PP ensures excellent print quality using conventional printing methods.

## Adhesive

	Property	Level
	Tack	High
	Peel Adhesion	High
	Shear	Extremely High

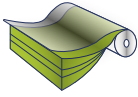
The adhesive is specially developed for filmic face material. Through the use of 2-layer technology and ideally optimised layers, the conversion properties become excellent and the adhesion properties are above average.

## Release Liner

	Property	Units	Value (approx)	Standard
	Grammage	g/m <sup>2</sup>	58	ISO 536
	Caliper	µm	49	ISO 534
	Tensile strength (MD)	N/15 mm	76	DIN 53112
	Tensile strength (CD)	N/15 mm	38	DIN 53112
	Transparency	%	49	DIN 53147

The glassine liner offers reliable performance in high-speed labelling machinery, providing efficient label application without interruptions.

## Clear Polypropylene with Gloss Lamination

	<b>Property</b>	<b>Units</b>	<b>Value (approx)</b>	<b>Standard</b>
	Grammage	g/m <sup>2</sup>	147	ISO 536
	Total Caliper	µm	139	ISO 534
	Minimum Application	°C	0	
	Service Temperature	°C	-30 to 80	

### Additional Material information

<b>White Underpin</b>	Yes
<b>Permanent adhesive</b>	Yes
<b>Waterproof</b>	Yes
<b>Tearproof</b>	Yes
<b>Oil resistant</b>	Yes, With Lamination
<b>Chemical resistant</b>	Yes, With Lamination
<b>Freezer safe</b>	Yes
<b>Recyclable</b>	Yes*
<b>Vegan status</b>	Friendly

\*only recyclable if applied to a PP product

## Compliance Information

<b>Commission Regulation</b>	(EU) No. 10/2011
<b>FDA Standards</b>	21 CFR 175.300, 21 CFR 175.320 and 21 CFR 177.1520
<b>BSI</b>	EN ISO 3826-1
<b>BFR</b>	BfR XIV
<b>REACH</b>	Yes, Compliant
<b>RoHS</b>	Yes, Compliant

## Storage and Shelf Life

Storing at a temperature of  $20 \pm 5$  °C, a relative humidity of  $45 \pm 5$  % and a dark storage is recommended. Moisture, heat and direct sunlight have to be avoided. The shelf life is two years from date of production.

## Regulations concerning contact with food

Clear Polypropylene is in compliance with Commission Regulation (EG) no. 1935/2004 and (EU) no. 10/2011 on plastic materials and articles intended to come into contact with food (with all amendments: Commission Regulation (EU) no. 321/2011, no. 1282/2011, no. 1183/2012, no. 202/2014, no. 174/2015, no. 1416/2016, 752/2017, no. 79/2018, no. 213/2018, no. 831/2018, no. 37/2019, no. 988/2019, no. 1338/2019 and no. 1245/2020) as well as US FDA 21 CFR 175.300, US FDA 21 CFR 175.320 and US FDA 21 CFR 177.1520.

All adhesive ingredients comply with recommendations BfR XIV or FDA 21 CFR 175.105 (Adhesives).

The pressure-sensitive adhesive can be safely used for the back coating of labels for labelling of foodstuffs for storage at room temperature or below. It may be used in direct contact with dry, moist and fatty foodstuffs that can be assigned a correction factor of at least 3 in accordance with Regulation (EU) No. 10/2011.

With regard to the results of the formulation evaluation and the migration analyses it can be derived that the adhesive grade does not have a harmful effect on the content of blood bags and that the requirements of the standard mentioned above are met in this case (EN ISO 3826-1 "Plastics Collapsible Containers for Human Blood and Blood Components, Part 1: Conventional containers, Paragraph 8.5 label requirements"). Declaration of no objection valid until 28.08.2026

The paper liner complies with recommendation BfR XXXVI.