



BICO PP-PE Round fibres

Fibres for the ultimate comfort

Beaulieu's BICO round fibres – made of polyethylene and polypropylene – combine the properties of two polymers in one fibre. The sheath made of polyethylene provides softness and the polypropylene core provides strength to the final fabric.

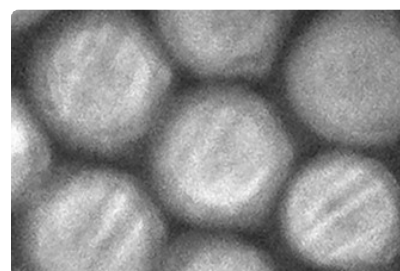
BICO PP-PE Round fibres | 1.7 - 8.9 dtex

This fibre range is made of Polyethylene (PE) in the sheath and Polypropylene (PP) in the core. Based on the request of our customers the Core/Sheath ratios can be adjusted from a standard 50/50 to 70/30. To adjust the liquid performance according to our customer requests different finishes can be applied on the fibre. The fibres can be used for Calender Thermo Bonding or Air-Through Bonding technologies, but are also suitable for Spunlacing and Needle Punching.

- Core: PP
- Sheath: PE

Applications

- Baby diapers
- Incontinence products
- Feminine care
- Wipes



Key properties:

- Improved softness
- Optimal bonding
- High nonwoven strength
- Low density

Specifications: BICO PP-PE Round fibres

	BICO PP-PE ROUND
TITRE (DTEX)	1.7 - 8.9
CUT LENGTH (MM)	40 – 50 – 60
CROSS SECTION SHAPE	Round
MELTING TEMPERATURE (°C)	PP (PHT-free): 165 PE: 130 °C
ADDITIVES	Softness Improvers, Opacifiers, Whiteness improvers

Finish options

- PHIL: Standard Hydrophilic
- PH: Permanent Hydrophilic
- PH/HW: Permanent Hydrophilic and High Wicking
- PHOB: Hydrophobic
- PH BOTANICAL: Permanent Hydrophilic with Botanical Essences
- SL: Finish suitable for Spunlace technology

Benefits for the nonwovens:

- Due to the use of PE in the sheath the fibres provide a very good softness to the nonwoven. The low melting temperature of the PE is also exploited for the bonding in nonwoven constructions.
- PP is used as core in this bicomponent fibre-platform. It will provide the strength for the nonwoven and it comes phthalate-free. The opacity levels can be adjusted by adding TiO₂ in the fibre formulation.
- Different finishes can be used to match the fibre to the final application of the nonwoven. (ie. permanent hydrophilic (PH) finishes are applied for





Fibres

uses in topsheets and hydrophobic finishes (PHOB) for uses in backsheet).

In compliance with safety regulations

Comfort and safety are inseparable. That's why our full range of fibre products complies with the most demanding worldwide safety regulations for hygiene applications. Fibres from Beaulieu do not contain any hazardous ingredients and are in full accordance with the European directives 67/548/CEE, EC 1272/2008 (CLP) and EC 1907/2006 (REACH). Our products are not cytotoxic, nor do they irritate the skin, fully in line with OEKO-TEX Standard 100 Normative, Class I and Class II.