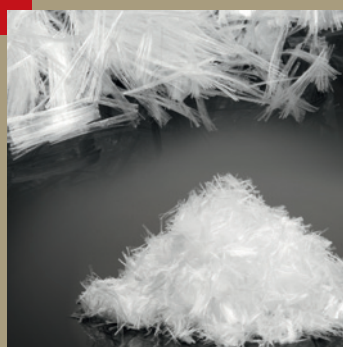


Your Specialist for Technical Extrusion of Polyolefins



PB STRAPPING

Strapping for industrial manufacturers, wholesalers and service providers



PB EUROFIBER

Functional fibres for wide-ranging construction applications in cementitious building materials as well as paints and sealing compounds



PB EUROFIBER CUT

Custom-engineered short-cut fibres for technical applications



PB STRAPPING

Strong Straps for Reliable Packaging

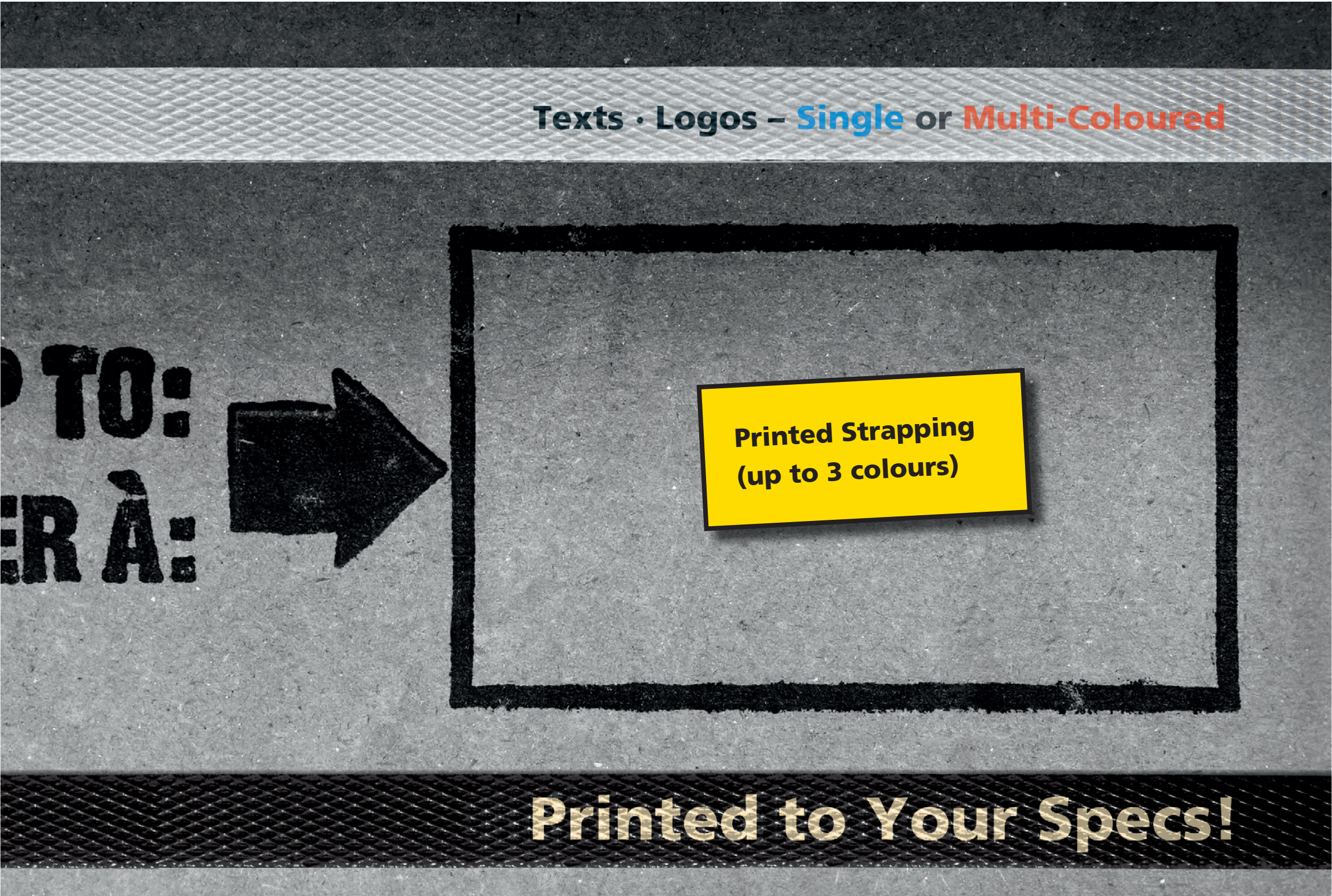
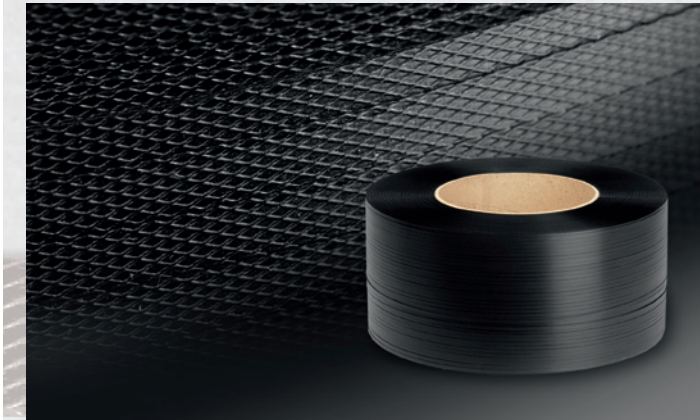
More than 50 years ago, Baumhueter began manufacturing industrial PP strapping materials. Today, baumhueter extrusion GmbH manufactures high-quality polypropylene strapping, identified by the registered trademark **PB STRAPPING**, at our corporate headquarters in Rheda-Wiedenbrück / Germany. Made with state-of-the-art extrusion equipment, premium raw materials and know-how from many years' experience, **PB STRAPPING** fulfils strictest requirements as proven on pallets and packages of all types the world over.



PB STRAPPING
PB STRAPPING is available from stock with a wide selection and consistently high quality, allowing choice of the right product for your specific needs.

Available Dimensions	
Width	5 to 16 mm
Thickness	0.35 to 1.2 mm
Roll core diameters	62, 150, 184, 200, 280, 407 mm

PB STRAPPING is the reliable way to ensure efficient and secure packaging.



PB STRAPPING

Product Range Overview

Standard PP Strapping

(Excerpt - other versions also available)



Typical Application Sectors

- Newspapers
- Mail-order houses
- Pharmaceuticals
- Corrugated cardboard products
- Publishers
- Newspaper / magazine wholesalers
- Paper manufacturing
- Construction materials
- Promotional materials
- Meat processors
- etc.

Advantages

- High strength
- High stiffness
- Low skew
- Minimum abrasion
- Outstanding weldability
- Precise winding
- Exact roll length



PB STRAPPING									
Product	Strap width	Product no.	Colour	Tensile strength	Core dimensions		Roll length	Packaging units	
Type	(mm)			(N)	I.D. (mm)	Width (mm)	(m)	Rolls/Box	Boxes/Pallet
5035	5.0	0035252 424	black	505	184	150	6000	2	30
5040/109	5.0	0040131 424	white	620	150	160	6000	2	30
5040	5.0	0041510 474	white	620	200	190	6500	2	30
5045	5.0	0046510 523	white	660	200	190	7000	2	24
5047	5.0	0047510 475	white	600	200	190	6500	2	24
5047	5.0	0047512 475	black	600	200	190	6500	2	24
5050 M	5.0	0051215 343	white	660	150	160	5200	2	30
5050/114	5.0	0050140 356	white	660	150	160	5300	2	30
8045	8.0	0365512 272	black	910	200	190	4500	2	24
8055	8.0	0375512 222	black	1050	200	190	4000	2	24
8055	8.0	0375632 272	black	1050	280	190	4500	2	16
9055	9.0	0430512 222	black	1200	200	190	4000	2	24
9060	9.0	0435512 152	black	1400	200	190	3300	2	24
9060	9.0	0435632 172	black	1400	280	190	3500	2	16
9060	9.0	0435752 121	black	1400	407	150	3000	1	20
100060	10.0	0480632 125	black	1400	280	190	3000	2	16
120045	12.0	0565902 018	black	1200	Dispenser boxes		1000	5	18
120055	12.0	0576512 126	black	1250	200	190	3000	2	24
120055	12.0	0575632074	black	1250	280	190	2500	2	24
120055	12.0	0575512 058	black	1350	200	190	3000	2	24
120055	12.0	0575632 058	black	1350	280	190	3000	2	16
120055	12.0	0575752 068	black	1350	407	150	2500	1	20
120060	12.0	0580516 072	black	1600	200	190	2500	2	24
120060	12.0	0581632 072	black	1600	280	190	2500	2	16
120060	12.0	0580752 073	black	1600	407	150	2500	1	20
120065	12.0	0585752 033	black	2000	407	150	2000	1	20
120073	12.0	0593632 034	black	2300	280	190	2000	2	16
120075	12.0	0595752 035	black	2550	407	150	2000	1	20
127040	12.7	0660752 119	black	1350	407	150	3000	1	20
127050	12.7	0670012 005	black	1750	62	160	600	4	60
127050	12.7	0670752 070	black	1750	407	150	2500	1	20
127050	12.7	0669902 018	black	1750	Dispenser boxes		1000	5	18
127060	12.7	0671012 003	black	1900	62	160	500	4	60
127060	12.7	0671752 047	black	2250	407	150	2000	1	20
127060	12.7	0671916 012	black	2250	Dispenser boxes		800	5	18
127065	12.7	0672052 098	black	1900	407	150	2500	1	20
127070	12.7	0672752 037	black	2400	407	150	2000	1	20
127080	12.7	0676752 028	black	2700	407	150	1500	1	20
127090	12.7	0691752 028	black	2900	407	150	1500	1	20
150045	15.0	0735902 018	black	1550	Dispenser boxes		1000	5	18
160050	16.0	0770752 047	black	2300	407	150	2000	1	20
160060	16.0	0780012 003	black	2700	62	160	500	4	60
160060	16.0	0781752 028	black	2700	407	150	1500	1	20
160080	16.0	0801752 026	black	3450	407	150	1300	1	20

PB EUROFIBER

Speciality Fibres for Construction Applications

PB EUROFIBER is a functional fibre product developed specifically for construction applications. Used successfully for some 40 years, it has made a name for itself throughout Europe as a high-performance additive for optimisation of construction materials.

PB EUROFIBER is used to upgrade concretes, screeds and dry-mix products as well as paints, coatings and sealing compounds. **PB EUROFIBER** has earned certification as an approved building material from DIBt (German Institute of Construction Technology / Berlin).



Fibre Properties

- Light weight
(density 0.91 g/cm³ as compared to 1.18 g/cm³ for PAN fibres and 2.6 g/cm³ for glass fibres)
- Resistant to alkalines
- Chemically resistant to acids, bases, salts and most solvents
- Outstanding dispersability
- Corrosion-free
- Antistatic
- Melting point: approx. 165 °C
- Auto-ignition temperature: > 320 °C
- Heat resistant up to 120 °C

Typical Application Sectors

- Screeds
- Industrial floorings
- Concretes
- Pre-cast concretes components
- Refractory concretes / compounds
(PP fibres for improved fire resistance)
- Fire-resistant tubular elements for tunnel construction
- Mortars
- Cement renders, plasters
- Levelling compounds
- Fillers
- Bitumen compounds
- Thickening agents and anti-cracking additives for paints and coatings



Technical Data*	Multifil-Fibres	Split-Film-Fibres	Macrofilm-Fibres
Resin	100 % polypropylene (PP)	100 % Polypropylene (PP)	100 % Polypropylene (PP)
Colour	natural white	transparent	transparent
Fibre cross-section	round	rectangular	rectangular
Fibre count	1 - 150 dtex (g/10,000 m)	38 x 200 mic	38 x 900 mic
Fibre diameter	10 - 145 mic	-	-
Fibre length	from 2 to approx. 18 (40) mm	2, 3, 6, 10, 15, 20 mm	40, 50 mm
Elongation at break	approx. 100 - 200 %	< 12 %	< 12 %
Tensile strength	> 220 N/mm ²	> 340 N/mm ²	> 600 N/mm ²
Elastic modulus	approx. 1000 N/mm ²	approx. 4000 - 6000 N/mm ²	> 9000 N/mm ²

*Guideline values

PB EUROFIBER

Product Range Overview

(Excerpt - other versions also available)



The following benefits can be realised with
PB EUROFIBER in specific applications:

- Green strength significantly improved
- Reduction of shrinkage cracking significantly improved
- Resistance to freeze-thaw and de-icing salts significantly improved
- Fire resistance significantly improved (reduction of spalling)
- Impermeability to water improved
- Impact strength improved
- Flexural strength/ tensile splitting strength slightly improved
- Compressive strength slightly improved

Certifications

- (1) DIBt certification
(German Institute of Construction Technology / Berlin)
(Certification no.: Z-3.73-1878)
- (2) CSTB certification
- (3) BB2G classification by ÖVBB Guidelines

Packaging Options

- Small packages à 50 – 1000 g
Paper or PE bags
- Large bags
normally 15 - 25 kg, PE bags
- Big Bags (FIBC), approx. 300 – 500 kg
- Collapsible HDPE boxes, approx. 300 – 350 kg
(reuseable packaging)
- Other packaging options: on request

PP Multifil-Fibres							
Application Sector	Product	Fibre Diameter mic	Fibre Length mm	dtex g/10,000 m	Fibre Count approx., 10 ⁶ /kg	Theoretical Length approx. km/kg	Certifications
Concretes, industrial flooring	PB EUROFIBER REF 506	19.8	6.0	2.8	600	3600	(1)
	PB EUROFIBER REF 512	19.8	12.0	2.8	300	3600	(1)
	PB EUROFIBER REF 520	19.8	18.0	2.8	200	3600	(1)
	PB EUROFIBER PRO-MIX 6	31.7	6.0	7.2	230	1400	(1)
	PB EUROFIBER PRO-MIX 12	31.7	12.0	7.2	115	1400	
	PB EUROFIBER PRO-MIX 18	31.7	18.0	7.2	70	1400	
	PB EUROFIBER MF 1217	15.4	12.0	1.7	500	5900	(1, 2)
Dry-mix products	PB EUROFIBER REF 502	17.5	2.2	2.2	2100	4600	(1)
	PB EUROFIBER REF 503 (2,8/3)	19.8	3.0	2.8	1190	3600	
	PB EUROFIBER REF 503 (17/3)	48.8	3.0	17.0	200	600	
	PB EUROFIBER REF 505	18.3	4.6	2.4	900	4200	(1)
	PB EUROFIBER REF 506	19.8	6.0	2.8	600	3600	(1)
	PB EUROFIBER REF 522-40 MF	70.0	2.2	40.0	115	250	
	PB EUROFIBER REF 546-60 MF	85.0	4.6	60.0	36	170	
	PB EUROFIBER REF 546-40 MF	70.0	4.6	40.0	55	250	
	PB EUROFIBER REF 546-20 MF	48.0	4.6	20.0	110	500	
Paints, coatings bitumens	PB EUROFIBER REF 501.5 (PE)	23.7	1.5	4.0	1700	2500	
	PB EUROFIBER REF 502	17.5	2.2	2.2	2100	4600	(1)
	PB EUROFIBER REF 503 (2,8/3)	19.8	3.0	2.8	1190	3600	
	PB EUROFIBER REF 505	18.3	4.6	2.4	900	4200	(1)
Fire-resistant concretes Refractory compounds	PB EUROFIBER HPR* (15/6)	15.4	6.0	1.7	1000	5900	(1)
	PB EUROFIBER HPR* (20/6)	19.8	6.0	2.8	600	3600	(1)
	PB EUROFIBER REF 506	19.8	6.0	2.8	600	3600	(1)
	PB EUROFIBER PRO-MIX 6	31.7	6.0	7.2	230	1400	(1;3)
PP Split-Film-Fibres							
Application Sector	Product	elementary fibril mic	Fibre Length mm		Fibre Count approx., 10 ⁶ /kg	Theoretical Length approx. km/kg	Certifications
Dry-mix products	PB EUROFIBER REF 303	38 x 200	3.0		46	140	(1)
	PB EUROFIBER REF 306	38 x 200	6.0		23	140	(1)
Screeds, concretes	PB EUROFIBER REF 310	38 x 200	10.0		14	140	(1;2)
	PB EUROFIBER REF 315	38 x 200	15.0		9	140	(1)
	PB EUROFIBER REF 320	38 x 200	20.0		7	140	(1)
PP Macro-Film-Fibres							
Application Sector	Product	elementary fibril mic	Fibre Length mm		Fibre Count approx., 10 ⁶ /kg	Theoretical Length approx. km/kg	
Concretes	PB EUROFIBER REF 340T	38 x 900	40.0		0.8	32	
	PB EUROFIBER REF 350T	38 x 900	50.0		0.6	32	

*For more detailed information, see brochure **PB EUROFIBER HPR**

PB EUROFIBER CUT

Custom-Engineered PP / PE and PET Fibres



Fibre Properties (PP/PE)

- Light weight (density PP 0.91 g/cm³, PE 0.94 g/cm³; as compared to 1.14 g/cm³ for PA, 1.18 g/cm³ for PAN, 1.36 g/cm³ for PET, 1.52 g/cm³ for VIS and 2.6 g/cm³ for glass fibres)
- Chemically resistant to acids, bases, salts and most solvents
- Auto-ignition temperature: > 320 °C
- Heat resistant up to 120 °C (PP)

Packaging Options

- Small packages à 50 - 1000 g
Paper or PE bags
- Large bags
normally 15 - 25 kg/PE bag
- Big Bags (FIBC), approx. 300 - 500 kg
- Collapsible HDPE boxes, approx. 300 - 350 kg (reusable packaging)
- Other packaging options: on request



PB EUROFIBER CUT is the registered trademark identifying our short-cut multifil fibres for specialty technical applications. Utilising our extensive product and applications know-how, we offer fibre solutions expertly engineered for your specific applications and needs.

Technical Data						
Polymers	Polypropylene	Polyethylene				Polyester
	PP	HDPE	LLDPE	LDPE	TPE	PET
Melting point	165 °C	131 °C	122 °C	104 °C	95 °C; 73 °C	250 °C
Fibre count	1 to 150 dtex / 10 to 145 mic					
Cut length	2.2 mm; 4.6 mm; 6 mm; 9 mm; 12 mm; 18 mm					
	Shorter lengths, available for PE only: 1.5 mm and approx. 1 mm (specialty)					
Moisture content	0.3 % - 15 % (as per your specification)					
Spin finish	Hydrophilic					

Optional Fibre Modifications (Excerpt – other versions also available)

- **Polymer modifications**
- **Fillers (e.g. mineral fillers) embedded in fibres**
- **Permanent hydrophilic fibres**
- **PP/PE fibres with improved bonding to foreign materials such as cellulose, glass as well as synthetic and mineral materials**
- **Antimicrobial fibres**
- **Optimised dispersion**
- **Hydrophobic spin finishes**
- **Thermo-stabilised PE/PP fibres**
- **Crosslinked PE Fibres (patented product)**

Crosslinked polymers exhibiting modified properties are made by baumhueter using a proprietary process technology. The desired degree of crosslinking (high or low) is achieved by adjusting the treatment intensity. Crosslinked PE fibres exhibit completely different rheology as compared to conventional fibres.

Whereas conventional PE fibres show customary thermoplastic flow behaviour, slight crosslinking increases melt viscosity and pronounced crosslinking results in a rubber-like elastomeric material, i.e. a material which does not melt when heated.

The increased heat stability and melt viscosity of the fibres can be adjusted to the exact levels required for your specific application. Crosslinked fibres also exhibit higher heat distortion temperatures.
- **PP Fibres with Significantly Reduced Melt Viscosity (patented product)**

These modified PP fibre grades are ideal for applications requiring reduced melt viscosity, i.e. much higher flow rates than standard fibre resins with MFI values in the range of 15 – 40 g /10 min.

The MFI (melt flow index) of the fibre melt can be increased by several orders of magnitude, for instance well over 1000 g/10 min, in accordance with your specific requirements.





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