



Recycled. Degradable. Bio-based.

RR BD BB



THREE 100% RECYCLABLE PRODUCT LINES
FOR YOUR SUSTAINABILITY GOALS





Reducing the carbon footprint for each loading scheme:







SCHEME

SCHEME E

CHEME C

FREE

Free analysis tool to optimize your packaging costs.

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RELIABLE QUALITY FOR SUSTAINABLE APPLICATIONS



By using our Manunature® product portfolio, you can not only ensure optimal transport safety, but also achieve your ESG/sustainability goals more effectively. Your packaging logistics will thus become an important factor in the success of your sustainability strategy.

manunature

The high-quality and high-performance polyethylene stretch film Manunature® RR is 100% recyclable. It contains a minimum of 30% post-consumer recycled plastics and, depending on the intended use, up to 60% regenerated material in total.

This is for a true circular economy.

1 Where does the regrind come from?

We are sourcing the post-commercial regrind (PCR) from recyclers certified by EUCertPlast. Manupackaging checks the quality of the PCR granules according to the high requirements of the incoming goods inspection in accordance with ISO 9001:2015 quality management.

manunature BD

Manunature® BD is 100% biodegradable and recyclable. The polymers break down into CO2, water, and biomass through the biodegradation process, without creating microplastics. Manunature® BD is 100% usable and recyclable for 6/12 months after production date. Only after that, the decomposition process begins.

²What does biodegradation process mean?

We're talking about biodegradability according to BSI PAS 9017:2020. The PE polymer is transformed into biocompatible wax. Biodegradation occurs in the soil by naturally occurring bacteria and fungi. Ecological impacts are determined through OECD tests

manunature BB

Produced using renewable raw materials, Manunature® BB consists of 50/100% BIO-LLDPE, a byproduct of the forestry industry and used oils for example. It's simply ingenious: For every kilogram of BIO-LLDPE used in the production of Manunature® BB, two kilograms of CO2 are removed from the atmosphere.

3 What do we mean by CO2 balance?

For different applications, there are different products that are optimized towards CO2 balance. If sustainability is important to you, then in addition to product selection, factors such as circular economy, material consumption, and transportation routes should also be considered.

	PRODUCT	M A N U N A T U R E ° RR		M A N U N A T U R E *BD		MANUNATURE °BB	
	VARIANT	RR30	RR60	12 Months product life cycle	6 Months product life cycle	50% Bio-LLDPE	100% Bio-LLDPE
	FEATURES	30% of raw materials consist of PCR/PIR recyclate ¹	60% of raw materials consist of PCR/PIR recyclate ¹	Biodegradation processs² starts after 12 months (from delivery date)	Biodegradation process² starts after 6 months (from delivery date)	Bio-LLDPE is made from the timber in vegetable oils and is scertification.	dustry, or used
KAW MAIERIALS	BIO-BASED (ISCC)					50%	100%
	POST-COMMERCIAL (PCR)	30%	30%				
	POST-INDUSTRIAL (PIR)		30%				
	LLDPE (PETROLEUM/GAS)*	70%	40%	100%	100%	50%	0%
JOLUGY	CARBON FOOTPRINT ³	<i>•</i>		0		00	000
	BIODEGRADABLE			000			
ú	CIRCULAR ECONOMY	000		0		0	
	PRICE CATEGORY	€€		€€€€		€€€	€€€€€
,	AS HAND ROLL		>	~	~		
	AS MACHINE ROLL		~	~	✓	~	~
	AS JUMBO	\	✓				
	AS STRETCH HOOD	~	✓				
	PRINTABLE	✓	✓	✓	✓	✓	~
	PRESTRETCH (%)**	150 - 275		175 - 325		250 - 400	
	FOIL TRANSPARENCY			• • •		• • •	
	OPT. UV PROTECTION	~				✓	~
	*All I I DPE stretch films and I DPE stretch hoods are 100% recyclable						

*All LLDPE stretch films and LDPE stretch hoods are 100% recyclable.



CLOSETHELOOP

Become our partner for true circular economy! You collect your used and unmixed film and give it back to us directly - we add it to the production process several times in order to use re-ARTNERPROGRAM sources sustainably. Achieving more together!





