



PRODUCT CATALOG

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We rescue our planet from plastic pollution by returning it to the economy.

Healix is on a mission to break the plastic wave by transforming used ropes and nets from fishing and farming into certified circular plastic. This initiative empowers our customers to significantly reduce their carbon footprint and use of virgin plastics. Operating under the motto "Retrieve, Recycle, Return: Rescued by Healix," we join forces with our value chain partners to tackle one of humanity's greatest challenges—plastic pollution. We retrieve plastic waste from traceable sources, recycle it using our advanced purification technology, and return it as a precious resource.

By keeping plastic in the economy, we keep it out of the environment.





PRODUCT CATALOG OCEANS

TECHNICAL DATA SHEET

Healix® XPP-MR

Circular PP from Maritime Ropes



Healix helps breaking the plastic wave by closing the loop on plastic fiber waste.

Used nets, ropes and other synthetic fiber based plastic waste are collected and recycled into certified circular polymers for the global manufacturing supply chain.



Product Characteristics

Healix® XPP-MR is a circular polyolefin (PO) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from maritime ropes, is characterized by moderate impact and stiffness and low residual odor. The material can vary in different dark colors, but not (carbon) black.

Recommended Applications

Healix® XPP-MR is a general-purpose grade that can be used in a wide variety of thermoforming and injection molding applications.

EN71-3/9 compliant. CO2 reduction statement available upon request. This product is not tested for the use in food, pharmaceutical, medical, or potable water applications.

Physical

Description	Unity	Typical value	Standard
Meltflow Index (230°C/2.16 kg)	g/10 min	3.5	ISO 1133-1
Density	kg/m ³	920	ISO 1183-1
Bulk Density	kg/m ³	540	ISO 60
Ash content	%	< 2.0	ISO 3451-1/A/600°C
Volatiles	%	< 1.0	ASTM D6980 @ 120°C
PE Content (DSC)	%	< 45	ISO 11357-3

Mechanical¹

Tensile modulus	MPa	1490	ISO 527-2/1A
Strain at yield	%	8.5	ISO 527-2/1A
Strain at break	%	160	ISO 527-2/1A
Stress at yield	MPa	31.5	ISO 527-2/1A
Flexural modulus	MPa	1540	ISO 178
Notched Charpy Impact strength(23°C, injection molded)	kJ/m ²	4.84	ISO 179-1/1eA

¹Properties were determined on injection molded specimens prepared in accordance with ISO 1873-2

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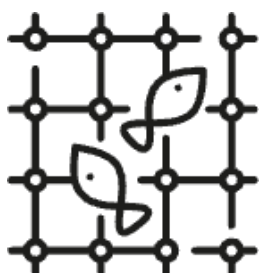
Healix® XHD-FN

Circular HDPE from Fishing Nets



Healix helps breaking the plastic wave by closing the loop on plastic fiber waste.

Used nets, ropes and other synthetic fiber based plastic waste are collected and recycled into certified circular polymers for the global manufacturing supply chain.



Product Characteristics

Healix® XHD-FN is a colored circular high-density polyethylene (HDPE) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from used fishing nets, is characterized by high impact and stretch ability and high polymer purity.

Recommended Applications

Healix® XHD-FN is a general-purpose grade that can be used for blow-molded bottles, extruded products such as pipes, profiles, sheet and injection molding applications. The typical color of this material is dark green, dark grey, or dark orange.

EN71-3/9 compliant. CO2 reduction statement available upon request. This product is not tested for the use in food, pharmaceutical, medical, or potable water applications.

Physical

Description	Unity	Typical value	Standard
Meltflow Index (190°C/2.16 kg)	g/10 min	0.75	ISO 1133-1
Density	kg/m3	945	ISO 1183-1
Bulk Density	kg/m3	570	ISO 60
Ash content	%	< 4.0	ISO 3451-1/A/600°C
Volatiles	%	< 0.2	ASTM D6980 @ 120°C
PE Content (DSC)	%	> 99%	ISO 11357-3

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Healix® XPP-BB

Circular PP from Big Bags



Healix helps breaking the plastic wave by closing the loop on plastic fiber waste.

Used nets, ropes and other synthetic fiber based plastic waste are collected and recycled into certified circular polymers for the global manufacturing supply chain.



Product Characteristics

Healix® XPP-BB is a circular polypropylene (PP) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from industrial big bags, is characterized by high stretchability, medium impact and low residual odor. The material can vary in different colors, but not (carbon) black.

Recommended Applications

Healix® XPP-BB is a general-purpose grade that can be used in a wide variety of extrusion and injection molding applications.

EN71-3/9 compliant. CO2 reduction statement available upon request. This product is not tested for the use in food, pharmaceutical, medical, or potable water applications

Physical

Description	Unity	Typical value	Standard
Meltflow Index (230°C/2.16 kg)	g/10 min	7.0	ISO 1133-1
Density	kg/m ³	948	ISO 1183-1
Bulk Density	kg/m ³	540	ISO 60
Ash content	%	< 4.0	ISO 3451-1/A/600°C
Volatiles	%	< 0.2	ASTM D6980 @ 120°C
PE Content (DSC)	%	< 20%	ISO 11357-3

Mechanical¹

Tensile modulus	MPa	1.150	ISO 527-2/1A
Strain at yield	%	11	ISO 527-2/1A
Strain at break	%	330	ISO 527-2/1A
Stress at yield	MPa	23	ISO 527-2/1A
Flexural modulus	MPa	1.050	ISO 178
Notched Charpy Impact strength(23°C, injection molded)	kJ/m ²	6.0	ISO 179-1/1eA

¹Properties were determined on injection molded specimens prepared in accordance with ISO 1873-2

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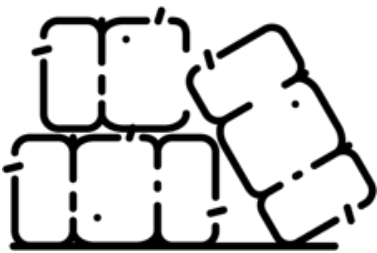
Healix® XPP-BT

Circular PP from Baler Twine



Healix helps breaking the plastic wave by closing the loop on plastic fiber waste.

Used nets, ropes and other synthetic fiber based plastic waste are collected and recycled into certified circular polymers for the global manufacturing supply chain.



Product Characteristics

Healix® XPP-BT is a circular homopolymer polypropylene (PP) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from agricultural baler twines, is characterized by high stiffness, high stretch ability, and low residual odor. The material can vary in different dark colors, but not (carbon) black.

Recommended Applications

Healix® XPP-BT is a general-purpose grade that can be used in a wide variety of extrusion, thermoforming, and injection molding applications. Due to the high filtration and purity level, it can be re-used into fiber applications (closed-loop).

EN71-3/9 compliant. CO2 reduction statement available upon request. This product is not tested for the use in food, pharmaceutical or medical applications.

Physical

Description	Unity	Typical value	Standard
Meltflow Index (230°C/2.16 kg)	g/10 min	4.0	ISO 1133-1
Density	kg/m3	918	ISO 1183-1
Bulk Density	kg/m3	540	ISO 60
Ash content	%	< 1.0	ISO 3451-1/A/600°C
Volatiles	%	< 0.2	ASTM D6980 @ 120°C
PE Content (DSC)	%	< 4%	ISO 11357-3

Mechanical¹

Tensile modulus	MPa	1600	ISO 527-2/1A
Strain at yield	%	8.5	ISO 527-2/1A
Strain at break	%	98	ISO 527-2/1A
Stress at yield	MPa	34	ISO 527-2/1A
Flexural modulus	MPa	1625	ISO 178
Notched Charpy Impact strength(23°C, injection molded)	kJ/m²	4.3	ISO 179-1/1eA

¹Properties were determined on injection molded specimens prepared in accordance with ISO 1873-2

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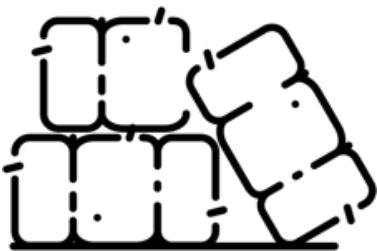
Healix® XPP-BT

Circular PP from Baler Twine



Healix helps breaking the plastic wave by closing the loop on plastic fiber waste.

Used nets, ropes and other synthetic fiber based plastic waste are collected and recycled into certified circular polymers for the global manufacturing supply chain.



Product Characteristics

Healix® XPP-BT is a circular homopolymer polypropylene (PP) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from agricultural baler twines, is characterized by high stiffness, high stretch ability, and low residual odor. The material can vary in different dark colors, but not (carbon) black.

Recommended Applications

Healix® XPP-BT is a general-purpose grade that can be used in a wide variety of extrusion, thermoforming, and injection molding applications. Due to the high filtration and purity level, it can be re-used into fiber applications (closed-loop).

EN71-3/9 compliant. CO2 reduction statement available upon request. This product is not tested for the use in food, pharmaceutical or medical applications.

Physical

Description	Unity	Min.	Typical	Max.	Standard
Meltflow Index (230°C/2.16 kg)	g/10 min		4.0		ISO 1133-1
Density	kg/m ³		918		ISO 1183-1
Bulk Density	kg/m ³		540		ISO 60
Ash content	%		< 1.0		ISO 3451-1/A/600°C
Volatiles	%		< 0.2		ASTM D6980 @ 120°C
PE Content (DSC)	%		< 4%		ISO 11357-3

Mechanical¹

Tensile modulus	MPa		1600		ISO 527-2/1A
Strain at yield	%		8.5		ISO 527-2/1A
Strain at break	%		98		ISO 527-2/1A
Stress at yield	MPa		34		ISO 527-2/1A
Flexural modulus	MPa		1625		ISO 178
Notched Charpy Impact strength (23°C, injection molded)	kJ/m ²		4.3		ISO 179-1/1eA

¹Properties were determined on injection molded specimens prepared in accordance with ISO 1873-2

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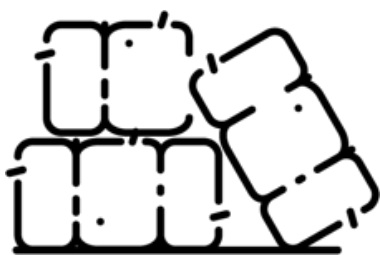
Healix® XPP-BT20

Circular PP from Baler Twine



Healix helps breaking the plastic wave by closing the loop on plastic fiber waste.

Used nets, ropes and other synthetic fiber based plastic waste are collected and recycled into certified circular polymers for the global manufacturing supply chain.



Product Characteristics

Healix® XPP-BT is a circular homopolymer polypropylene (PP) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from agricultural baler twines, is characterized by high stiffness, high stretch ability, and low residual odor. The material can vary in different dark colors, but not (carbon) black.

Recommended Applications

Healix® XPP-BT is a general-purpose grade that can be used in a wide variety of extrusion, thermoforming, and injection molding applications. Due to the high filtration and purity level, it can be re-used into fiber applications (closed-loop).

EN71-3/9 compliant. CO2 reduction statement available upon request. This product is not tested for the use in food, pharmaceutical or medical applications.

Physical

Description	Unity	Typical value	Standard
Meltflow Index (230°C/2.16 kg)	g/10 min	20.0	ISO 1133-1
Density	kg/m ³	918	ISO 1183-1
Bulk Density	kg/m ³	540	ISO 60
Ash content	%	< 1.0	ISO 3451-1/A/600°C
Volatiles	%	< 0.2	ASTM D6980 @ 120°C
PE Content (DSC)	%	< 4%	ISO 11357-3

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Healix® XHD-TN

Circular HDPE from Tulip Nets



Healix helps breaking the plastic wave by closing the loop on plastic fiber waste.

Used nets, ropes and other synthetic fiber based plastic waste are collected and recycled into certified circular polymers for the global manufacturing supply chain.



Product Characteristics

Healix® XHD-TN is a natural/brown colored circular high-density polyethylene (MDPE) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from used agricultural tulip nets, is characterized by high impact, high stretch ability and easy color ability.

Recommended Applications

Healix® XHD-TN is a general-purpose grade that can be used for small blow-moulded bottles and extruded products such as pipes, profiles, wire & cable jacketing. Due to the absence of pigments, it can be very easily over-colored into e.g. red, green and blue.

EN71-3/9 compliant. CO2 reduction statement available upon request. This product is not tested for the use in food, pharmaceutical, medical, or potable water applications.

Physical

Description	Unity	Typical value	Standard
Meltflow Index (190°C/2.16 kg)	g/10 min	0.7	ISO 1133-1
Density	kg/m ³	950	ISO 1183-1
Bulk Density	kg/m ³	570	ISO 60
Ash content	%	< 1.0	ISO 3451-1/A/600°C
Volatiles	%	< 0.2	ASTM D6980 @ 120°C
PE Content (DSC)	%	> 99%	ISO 11357-3

Mechanical¹

Tensile modulus	MPa	745	ISO 527-2/1A
Strain at yield	%	11	ISO 527-2/1A
Strain at break	%	150	ISO 527-2/1A
Stress at yield	MPa	21	ISO 527-2/1A
Flexural modulus	MPa	798	ISO 178
Notched Charpy Impact strength(23°C, injection molded)	kJ/m ²	28	ISO 179-1/1eA

¹Properties were determined on injection molded specimens prepared in accordance with ISO 1873-2

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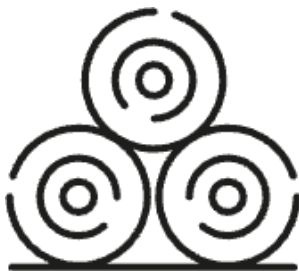
Healix® XHD-NW

Circular HDPE from Net Wrap



Healix helps breaking the plastic wave by closing the loop on plastic fiber waste.

Used nets, ropes and other synthetic fiber based plastic waste are collected and recycled into certified circular polymers for the global manufacturing supply chain.



Product Characteristics

Healix® XHD-NW is a black colored circular high-density polyethylene (HDPE) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from agricultural netwrap, characterized by its high impact strength.

Recommended Applications

Healix® XHD-NW is a general-purpose grade that can be used for extrusion applications and thermoformed products such as pipes, profiles, sheets, wire & cable jacketing.

CO2 reduction statement available upon request. This product is not tested for the use in food, pharmaceutical, medical, or potable water applications.

Physical

Description	Unity	Typical value	Standard
Meltflow Index (190°C/2.16 kg)	g/10 min	0.7	ISO 1133-1
Density	kg/m ³	950	ISO 1183-1
Bulk Density	kg/m ³	570	ISO 60
Ash content	%	< 1.0	ISO 3451-1/A/600°C
Volatiles	%	< 0.2	ASTM D6980 @ 120°C
PE Content (DSC)	%	> 99%	ISO 11357-3

Mechanical¹

Tensile modulus	MPa	745	ISO 527-2/1A
Strain at yield	%	11	ISO 527-2/1A
Strain at break	%	150	ISO 527-2/1A
Stress at yield	MPa	21	ISO 527-2/1A
Flexural modulus	MPa	798	ISO 178
Notched Charpy Impact strength(23°C, injection molded)	kJ/m ²	28	ISO 179-1/1eA

¹Properties were determined on injection molded specimens prepared in accordance with ISO 1873-2

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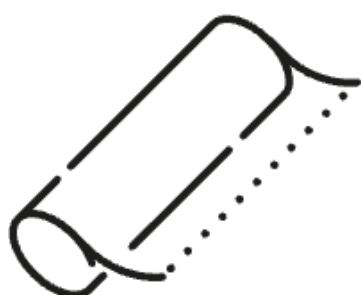
Healix® XLD-FL

Circular LL-LDPE from Commercial Waste



Healix helps breaking the plastic wave by closing the loop on plastic fiber waste.

Used nets, ropes and other synthetic fiber based plastic waste are collected and recycled into certified circular polymers for the global manufacturing supply chain.



Product Characteristics

Healix® XLD-FL is a natural colored circular "LL-rich" LL/LDPE blend supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from commercial and industrial activities, is characterized by its purity, natural color and low odor.

Recommended Applications

Healix® XLD-FL is a blown film grade that can be used for general purpose and secondary packaging applications. It is also suitable for different roto-molding injection and blow molding applications. Color ability is easy as the material does not contain pigments.

CO2 reduction statement available upon request. This product is not tested for the use in food, pharmaceutical, medical, or potable water applications.

Physical

Description	Unity	Typical value	Standard
Meltflow Index (190°C/2.16 kg)	g/10 min	1.2	ISO 1133-1
Density	kg/m3	919	ISO 1183-1
Bulk Density	kg/m3	570	ISO 60
Ash content	%	< 1.0	ISO 3451-1/A/600°C
Volatiles	%	< 0.2	ASTM D6980 @ 120°C
PE Content (DSC)	%	> 99%	ISO 11357-3

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General Conditions of Sale and Delivery 2021

1. General

- 1.1. These General Conditions of Sale and Delivery ("Conditions") shall be applicable to all offers, order confirmations and deliveries ("Goods") by HEALIX B.V., (hereinafter referred to as "Seller") and shall form an integral part of the sales agreement ("Agreement") between Seller and Buyer. No other general conditions shall be applicable or set aside these Conditions unless expressly agreed to by Seller in writing.
- 1.2. Seller and Buyer agree that valid, enforceable and binding obligations may result from electronic means of communication. Any electronic communication between Seller and Buyer shall be considered to be a "writing" and/or "in writing".
- 1.3. Seller (as defined below) hereby expressly rejects the applicability of any general conditions of the Buyer.

2. Price

Prices and currencies of Seller's Goods are as set out in Seller's order confirmation. Unless agreed otherwise, Seller's prices include standard packaging but do not include Value Added Tax or any other similar applicable taxes, duties, levies or charges in any jurisdiction levied in relation to the Goods or the delivery thereof ("Taxes"). The amount of any Taxes levied in connection with the sale of the Goods to Buyer shall be for Buyer's account and shall be added to each invoice or separately invoiced by Seller to Buyer. If Seller grants a discount, this discount only relates to the delivery specifically mentioned in Seller's Confirmation.

3. Delivery

- 3.1. Unless expressly stated otherwise in Seller's Confirmation, all deliveries of goods shall be FCA Seller's point of loading, Incoterms® 2020.
- 3.2. For each shipment of the products, Buyer shall, as condition for delivery, notify Seller in writing of the quantity, preferred date of delivery, and any relevant shipping instructions. If Buyer does not timely or not adequately supply the above-mentioned information, Seller shall not be liable for non-delivery or for any delay in delivery.
- 3.3. Seller shall to the best of his ability observe the time of delivery agreed upon. However, delays shall not entitle Buyer to claim cancellation of the Agreement and/or indemnification. An agreement which does not or not accurately specify the delivery times, or in which other specifications are missing, shall not become binding upon Seller until the missing delivery times and/or specifications have been communicated to Seller and have been agreed upon.
- 3.4. The quantities stated in shipping documents such as weight certificates, bills of lading, sea-way bills, liner-way bills, and freight receipts, shall be deemed correct unless proven to be incorrect. Seller may deviate up to 10 % from the agreed quantities and the sum to be paid by Buyer shall be adapted accordingly.

4. Payment

- 4.1. Unless expressly stated otherwise in Seller's Confirmation, payment shall be made based on net cash, to be received by Seller within fourteen (14) days following the date of Seller's invoice for the Goods by means of transfer into the bank account mentioned on the invoice. All payments shall be made without any deduction on account of any Taxes and free of set-off or counterclaim.
- 4.2. Seller may, without prejudice to any other rights of Seller, charge interest on any overdue payment at the higher rate of either twelve percent (12%) per annum or one and a half times the prevailing rate under applicable law per annum, but not to exceed the maximum interest rate permitted under applicable law, from the due date computed daily until all amounts outstanding are paid in full. All costs and expenses incurred by Seller with respect to collection of overdue payments (including, without limitation, reasonable attorney's fees, expert fees, court costs and other expenses of litigation) shall be for Buyer's account.
- 4.3. If any amount of the invoice is disputed by the Buyer, the Buyer shall inform the Seller of the grounds for such dispute within seven (7) days of delivery of the goods and shall pay to the Seller the value of the invoice less the disputed amount in accordance with these payment terms.

5. Cancellation

Cancellation of the Order by the Buyer will only be accepted on condition that 10% of the order value will be reimbursed to the Company forthwith.

6. Retention of title

Title in the goods shall remain with Seller if Buyer has not paid the full purchase price. If payment is not made in time or in full, Buyer shall at Seller's first request return the goods to Seller. Failing this, Seller shall be

entitled, without prejudice to his other rights and remedies, to take back the sold goods without any summons, notice of default or judicial intervention being required. As long as Seller retains title in the goods sold, said goods shall be used only by Buyer himself for processing or working up in the normal conduct of his business. Buyer acquires the title to the package material (including but not limited to pallets, cardboard boxes, big bags etc.) unless on the packaging materials is indicated that the Seller or a third-party claims retention thereto.

7. Default by Buyer

Seller has the right to set off any sums receivable from Buyer, which in this respect is also understood to mean all companies forming part of the same group of companies as Buyer, against any sums payable to Buyer.

8. Warranty

No warranty is given and no representation is made by Seller, whether express or implied, as to the usefulness, sufficiency, merchantability or fitness for any purpose whatsoever of the goods supplied, unless explicitly given respectively made in writing. The correctness of information provided by Seller regarding the quality, composition or possible applications of the goods is warranted only if such warranty is explicitly stated in the sales agreement.

9. Liability

- 9.1. The products shall be deemed accepted by Buyer, and Buyer shall be deemed to waive any claims, unless Seller is notified in writing of a claim within seven (7) days of the date of delivery, Buyer shall inspect all shipments forthwith.
- 9.2. Seller's liability shall not exceed the net sales price of the goods concerned. In no event shall Seller's liability include indirect or consequential damages.

10. Inspection, claims, notification

- 10.1. Upon receipt of the goods, Purchaser shall inspect the same, by analysis or otherwise, exercising such care is customary or appropriate in the circumstances. Any claims concerning the quality or quantity of the goods delivered shall be submitted by Buyer to Seller within seven (7) days from the date of receipt of the goods.
- 10.2. Goods shall not be returned to Seller without prior written consent of Seller.

11. Force Majeure

Neither party shall be deemed to be in default under the sales agreement and no liability shall result from non-performance of the sales agreement, if and to the extent the non-performance is caused by circumstances beyond the reasonable control of the failing party, including, but not limited to, war, fire, explosion, terrorist attacks, storm, flood, earthquake, sabotage, acts of government, labour disturbances, shortage of energy, raw materials and means of transport, break-down of machinery and plant start-up problems.

12. Setoff

Seller, which in this respect is also understood to mean all companies forming part of the same group of companies as Seller, has the right to set off any sums receivable from Buyer, which in this respect is also understood to mean all companies forming part of the same group of companies as Buyer, against any sums payable to Buyer.

13. Applicable law

Only Dutch law shall apply to the Agreement. The United Nations Convention on contracts for the International sale of goods, concluded at Vienna, the 11th of April 1980 (see Treaty Publications 1981, nr. 184) shall not be applicable to the Agreement

14. Disputes

All disputes arising from or in connection with the Agreement shall be subject to the jurisdiction of the courts of Maastricht, The Netherlands and courts of appeal from them and without prejudice to Seller's right to summon Buyer before the competent courts of the Seller's domicile