



 healix<sup>®</sup>

# 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 <sup>3</sup>	920	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	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

### Mechanical<sup>1</sup>

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 <sup>2</sup>	4.84	ISO 179-1/1eA

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

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# TECHNICAL DATA SHEET

## 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/m <sup>3</sup>	945	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	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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# TECHNICAL DATA SHEET

## 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 <sup>3</sup>	948	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	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

### Mechanical<sup>1</sup>

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 <sup>2</sup>	6.0	ISO 179-1/1eA

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

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# PRODUCT CATALOG FARMLANDS



# TECHNICAL DATA SHEET

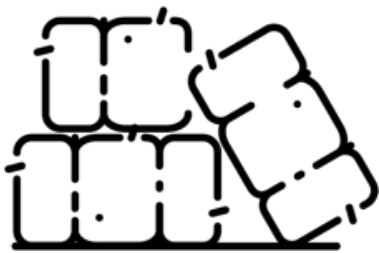
## Healix® XPP-BT

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/m <sup>3</sup>	918	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	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

### Mechanical<sup>1</sup>

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 <sup>2</sup>	4.3	ISO 179-1/1eA

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

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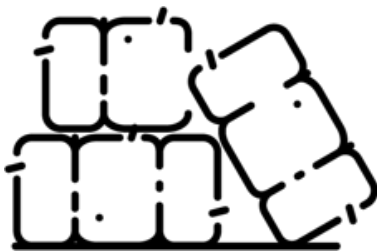
## Healix® XPP-BT20

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 <sup>3</sup>	918	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	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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# TECHNICAL DATA SHEET

## 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 <sup>3</sup>	950	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	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

### Mechanical<sup>1</sup>

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 <sup>2</sup>	28	ISO 179-1/1eA

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

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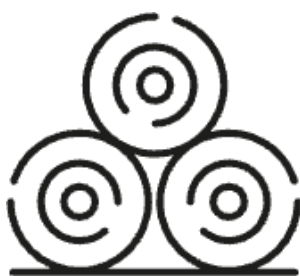
## Healix® XHD-NW

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 <sup>3</sup>	950	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	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

### Mechanical<sup>1</sup>

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 <sup>2</sup>	28	ISO 179-1/1eA

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

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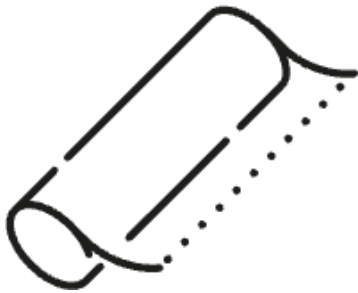
## Healix® XLD-FL

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	0.75	ISO 1133-1
Density	kg/m <sup>3</sup>	945	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	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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