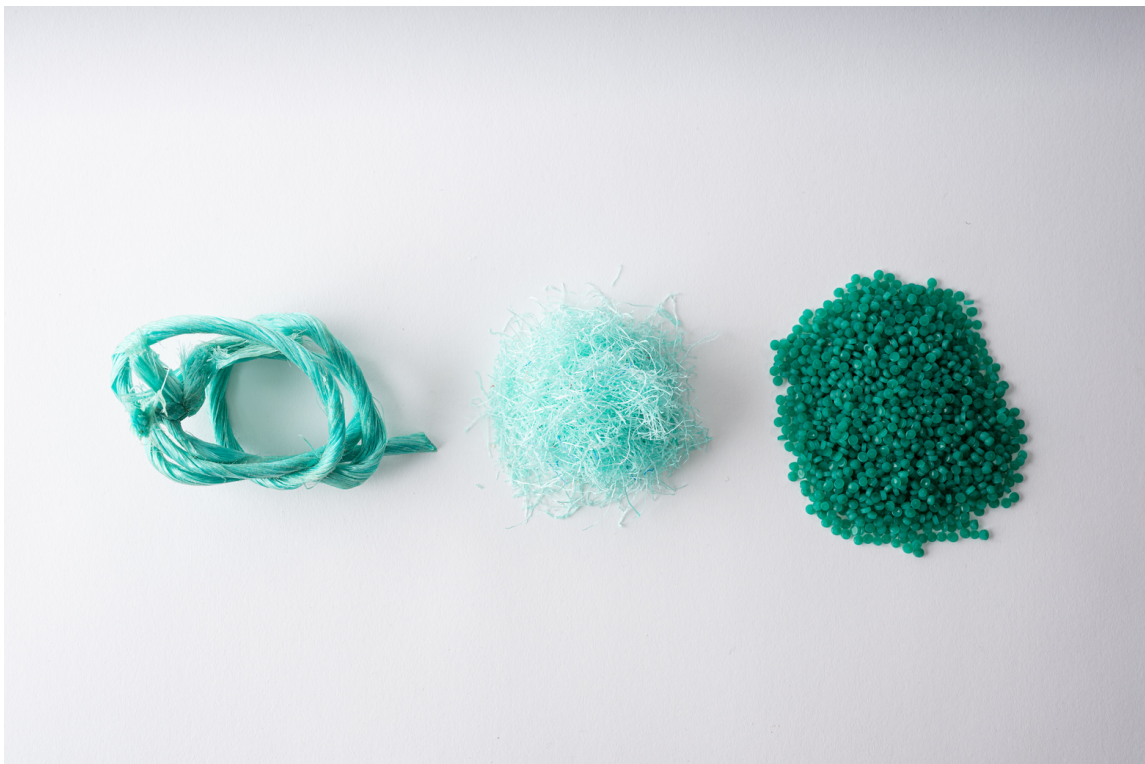


# PRODUCT CATALOG



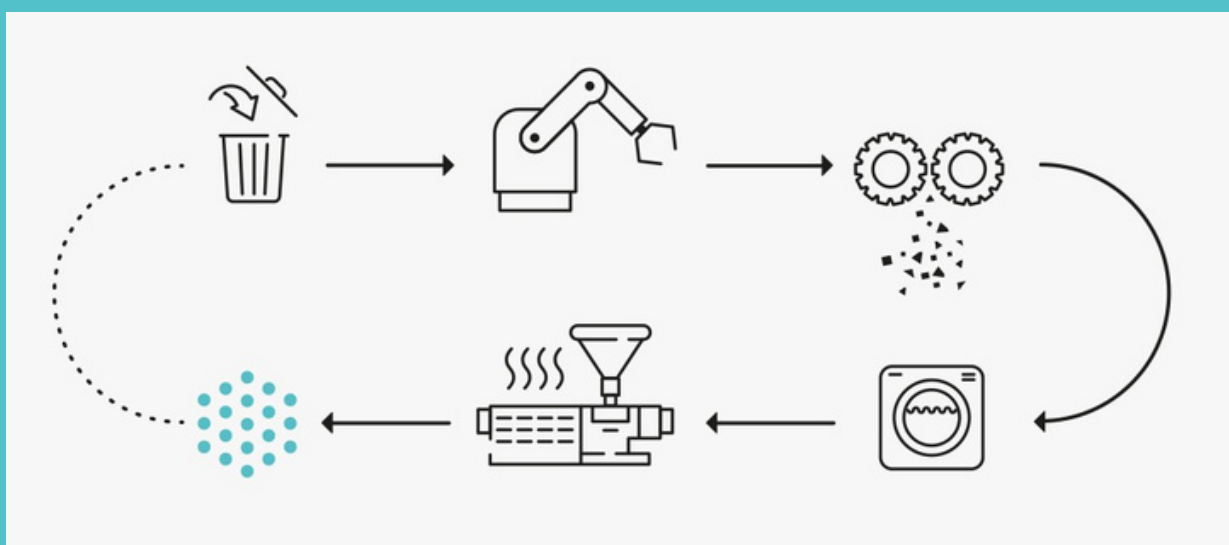
WWW.HEALIX.ECO | FREGATWEG 51, 6222NZZ, MAASTRICHT, THE NETHERLANDS



# ABOUT US,

*“By keeping plastic in the economy, we keep it out of the environment”*

Healix® helps breaking the plastic waves by creating a circular future for plastic fiber waste. Used nets, ropes and other synthetic fiber-based plastics are collected and transformed into certified polymers for the global manufacturing supply chain. Our products are suitable for both closed loop (fiber-to-fiber) and open loop applications.



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# TECHNICAL DATA SHEET

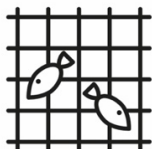
## Healix® XHD-FN

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 pristine 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-moulded bottles, extruded products such as pipes, profiles, sheet and injection moulding applications. The typical color of this material is dark green or dark grey.

This product is not tested and therefore not validated for 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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XHD-FN / 04 2023



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# TECHNICAL DATA SHEET

## Cyclix XHD-HW-GY

Circular HDPE from Household Waste



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

Cyclix is our brand name for non-fibrous post-consumer waste processed at Healix, such as household packaging or commercial and industrial waste.



### Product Characteristics

Cyclix XHD-HW-GY is a dark color-sorted circular high-density polyethylene (HDPE) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from recycled household packaging waste flakes by Umincorp, is characterized by a high molecular weight and good processing properties.

### Recommended Applications

Cyclix XHD-HW-GY is a general-purpose grade that can be used for bottles and containers < 5L in e.g. personal care, household and industrial liquids, and for extruded articles such as pipes, profiles, wire & cable jacketing.

This product is not tested and therefore not validated for 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	0.6	ISO 1133-1
Density	kg/m <sup>3</sup>	955	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	570	ISO 60
Ash content	%	< 1.5	ISO 3451-1/A/600°C
Volatiles	%	< 0.1	ASTM D6980 @ 120°C
PE Content (DSC)	%	> 95	ISO 11357-3

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

Description	Unity	Typical value	Standard
Tensile Modulus	MPa	945	ISO 527-2/1A
Strain at yield	%	14	ISO 527-2/1A
Strain at break	%	157	ISO 527-2/1A
Stress at yield	MPa	24	ISO 527-2/1A
Flexural Modulus	MPa	950	ISO 178
Charpy Impact (notched, 23°C)	kJ/m <sup>2</sup>	14	ISO 179-1/1eA

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

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XHD-HW-GY / 04 2023



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# TECHNICAL DATA SHEET

## Cyclix XHD-HW-GY/OT



Circular HDPE from Household Waste - Odor Treated

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

Cyclix is our brand name for non-fibrous post-consumer waste processed at Healix, such as household packaging or commercial and industrial waste.



### Product Characteristics

Cyclix XHD-HW-GY/OT is a grey color-sorted high-density polyethylene (HDPE) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from recycled household packaging waste flakes of Umincorp, is characterized by a high molecular weight with good processing properties. The material has a very low odor.

### Recommended Applications

Cyclix XHD-HW-GY/OT is a general-purpose grade that can be used for bottles and containers < 5L in e.g. personal care, household and industrial liquids, and for extruded articles such as pipes, profiles, wire & cable jacketing.

This product is not tested and therefore not validated for 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	0.6	ISO 1133-1
Density	kg/m <sup>3</sup>	955	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	570	ISO 60
Ash content	%	< 1.5	ISO 3451-1/A/600°C
Volatiles	%	< 0.1	ASTM D6980 @ 120°C
PE Content (DSC)	%	> 95	ISO 11357-3

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

Description	Unity	Typical value	Standard
Tensile Modulus	MPa	945	ISO 527-2/1A
Strain at yield	%	14	ISO 527-2/1A
Strain at break	%	150	ISO 527-2/1A
Stress at yield	MPa	24	ISO 527-2/1A
Flexural Modulus	MPa	950	ISO 178
Charpy Impact (notched, 23°C)	kJ/m <sup>2</sup>	14	ISO 179-1/1eA

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

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XHD-HW-GY-OT / 06 2023



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# TECHNICAL DATA SHEET

## Cyclix XHD-HW-WT

Circular HDPE from Household Waste



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

Cyclix is our brand name for non-fibrous post-consumer waste processed at Healix, such as household packaging or commercial and industrial waste.



### Product Characteristics

Cyclix XHD-HW-WT is a light color-sorted circular high-density polyethylene (HDPE) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from recycled household packaging waste flakes by Umincorp, is characterized by a high molecular weight with easy colorability and good processing properties.

### Recommended Applications

Cyclix XHD-HW-WT is a general-purpose grade that can be used for bottles and containers < 5L in e.g. personal care, household and industrial liquids, and for extruded articles such as pipes, profiles, wire & cable jacketing.

This product is not tested and therefore not validated for 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	0.5	ISO 1133-1
Density	kg/m <sup>3</sup>	958	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	570	ISO 60
Ash content	%	< 1.5	ISO 3451-1/A/600°C
Volatiles	%	< 0.1	ASTM D6980 @ 120°C
PE Content (DSC)	%	> 95	ISO 11357-3

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

Description	Unity	Typical value	Standard
Tensile Modulus	MPa	950	ISO 527-2/1A
Strain at yield	%	10	ISO 527-2/1A
Strain at break	%	60	ISO 527-2/1A
Stress at yield	MPa	24	ISO 527-2/1A
Flexural Modulus	MPa	1.000	ISO 178
Charpy Impact (notched, 23°C)	kJ/m <sup>2</sup>	15	ISO 179-1/1eA

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

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XHD-HW-WT / 04 2023



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# TECHNICAL DATA SHEET

## Cyclix XHD-HW-WT/OT



Circular HDPE from Household Waste - Odor Treated

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

Cyclix is our brand name for non-fibrous post-consumer waste processed at Healix, such as household packaging or commercial and industrial waste.



### Product Characteristics

Cyclix XHD-HW-WT/OT is a light color-sorted high-density polyethylene (HDPE) grade supplied in pellet form. This 100% Post-Consumer Waste based grade, originating from recycled household packaging waste flakes of Umincorp, is characterized by a high molecular weight with easy colorability and good processing properties. The material has a very low odor.

### Recommended Applications

Cyclix XHD-HW-WT/OT is a general-purpose grade that can be used for bottles and containers < 5L in e.g. personal care, household and industrial liquids, and for extruded articles such as pipes, profiles, wire & cable jacketing.

This product is not tested and therefore not validated for 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	0.5	ISO 1133-1
Density	kg/m <sup>3</sup>	958	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	570	ISO 60
Ash content	%	< 1.5	ISO 3451-1/A/600°C
Volatiles	%	< 0.1	ASTM D6980 @ 120°C
PE Content (DSC)	%	> 95	ISO 11357-3

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

Description	Unity	Typical value	Standard
Tensile Modulus	MPa	950	ISO 527-2/1A
Strain at yield	%	10	ISO 527-2/1A
Strain at break	%	60	ISO 527-2/1A
Stress at yield	MPa	24	ISO 527-2/1A
Flexural Modulus	MPa	1.000	ISO 178
Charpy Impact (notched, 23°C)	kJ/m <sup>2</sup>	15	ISO 179-1/1eA

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

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XHD-HW-WT-OT / 04 2023



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# TECHNICAL DATA SHEET

## Healix® XHD-TN

Circular MDPE 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 pristine circular polymers for the global manufacturing supply chain.



### Product Characteristics

Healix® XHD-TN is a natural/brown colored circular medium-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.

This product is not tested and therefore not validated for 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>	945	ISO 1183-1
Bulk Density	kg/m <sup>3</sup>	570	ISO 60
Ash content	%	< 1.0	ISO 3451-1/A/600°C
Volatiles	%	< 0.1	ASTM D6980 @ 120°C
PE Content (DSC)	%	> 99%	ISO 11357-3

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

Description	Unity	Typical value	Standard
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 moulded specimens prepared in accordance with ISO 1873-2

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XHD-TN / 04 2023



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# TECHNICAL DATA SHEET

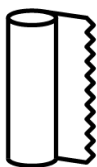
## Cyclix XLD-FL

Circular LL-LDPE from Commercial Waste



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

Cyclix is the brand name for non-fibrous waste recycled at Healix, such as packaging or commercial/industrial waste.



### Product Characteristics

Cyclix 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

Cyclix 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. Colorability is easy as the material does not contain pigments.

This product is not tested and therefore not validated for 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/m <sup>3</sup>	919	ISO 1183-1
Ash content	%	< 0.25	ISO 3451-1/A/600°C
Volatiles	%	< 0.1	ASTM D6980 @ 120°C
PE Content (DSC)	%	100	ISO 11357-3
Filtration	□m	100	-
Recycled Content	%	100	EN 15344

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XLD-FL / 04 2023



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# TECHNICAL DATA SHEET

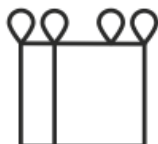
## Healix® XPP-BB

Circular PP from Industrial Big Bags



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

Used nets, ropes and other synthetic fiber-based plastics are collected and recycled into pristine 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.

This product is not tested and therefore not validated for 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>

Description	Unity	Typical value	Standard
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 moulded specimens prepared in accordance with ISO 1873-2

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XPP-BB / 04 2023



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# TECHNICAL DATA SHEET

## Healix<sup>®</sup> XPP-BT

Circular PP from Baler Twines



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

Used nets, ropes and other synthetic fiber-based plastics are collected and recycled into pristine circular polymers for the global manufacturing supply chain.



### Product Characteristics

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

This product is not tested and therefore not validated for 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	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>

Description	Unity	Typical value	Standard
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 moulded specimens prepared in accordance with ISO 1873-2

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XPP-BT / 04 2023



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# TECHNICAL DATA SHEET

## Healix<sup>®</sup> XPP-BT20

Circular PP from Baler Twines



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

Used nets, ropes and other synthetic fiber-based plastics are collected and recycled into pristine circular polymers for the global manufacturing supply chain.



### Product Characteristics

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

This product is not tested and therefore not validated for 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	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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XPP-BT20 / 09 2023



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# 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 plastics are collected and recycled into pristine 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.

This product is not tested and therefore not validated for 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

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XPP-MR / 04 2023



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# TECHNICAL DATA SHEET

## Relix XPP-ST

Post Industrial PP Straps



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

Relix is our brand name for post-industrial waste processed at Healix, such as waste from the strapping industry.

### Product Characteristics

Relix XPP-ST is a circular homopolymer polypropylene (PP) grade supplied in pellet form. This 100% Post-Industrial Waste based grade originated from the strapping industry is characterized by high purity, high stiffness, and low residual odor.

### Recommended Applications

Relix XPP-ST is a general-purpose grade that can be used in a wide variety of extrusion, thermoforming, and injection molding applications. In addition, due to a high purity level, it can also be used in fiber applications e.g. strapping or textiles.

This product is not tested and therefore not validated for 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	3.0	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	%	< 0.1	ASTM D6980 @ 120°C
PE Content (DSC)	%	< 0,1%	ISO 11357-3

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

Description	Unity	Typical value	Standard
Tensile modulus	MPa	1850	ISO 527-2/1A
Strain at yield	%	7.3	ISO 527-2/1A
Strain at break	%	35	ISO 527-2/1A
Stress at yield	MPa	36	ISO 527-2/1A
Flexural modulus	MPa	1790	ISO 178
Notched Charpy Impact strength (23°C, injection molded)	kJ/m <sup>2</sup>	3.1	ISO 179-1/1eA

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

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XPP-ST / 04 2023



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