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/m³	945	ISO 1183-1
Bulk Density	kg/m³	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[1]

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/m²	28	ISO 179-1/1eA

[1] Properties were determined on injection moulded specimens prepared in accordance with ISO 1873-2

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