

# 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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