

# Recycl-IN rHD5502WT

## Recycl-IN

### Provisional DATA SHEET

#### Product Technical Information

**Recycl-IN rHD5502WT** is a high density polyethylene resin containing at least 55% weight of Post-Consumer Recyclate (PCR). The grade is supplied as a homogeneous compound in pellet shape and can be used as a drop-in for virgin resin. Recycl-IN rHD5502WT is white coloured with has indicative CIELAB L\* value higher than 80%.

**Recycl-IN rHD5502WT** strikes an optimal balance between stiffness, stress crack resistance (ESCR) and impact resistance, which makes this grade ideal for use in a wide range of blow moulding applications. The grade is in particular well suited for chemical and detergent packaging.

#### Benefits & Features

- / Reduced carbon footprint thanks to the PCR content
- / Certified according to EN15343 for the traceability of recycled plastics
- / High impact strength
- / Outstanding environmental stress crack resistance

#### Applications

- / Blow moulded containers up to 5 L capacity for packaging chemicals, many household products and oils.
- / Sheet extrusion

This grade is not suitable for food packaging or pharmaceutical and medical applications.

#### Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration. It is advised to process the product within maximum one year after delivery.

#### Disclaimer

Although **Recycl-IN™** compounds offer Polyethylene virgin-like characteristics, they contain high levels of mechanically recycled post-consumer waste and, therefore, are not free from any gel, black spot, or other impurities. INEOS O&P Europe is taking all possible measures to avoid or minimise the presence of these defects but cannot guarantee their total absence.

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Properties	Conditions	Test Methods	Values	Units
<b>Physical</b>				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	0.2	g/10min
Density		ISO 1183-1 & ISO 17855-1	955	kg/m <sup>3</sup>
<b>Mechanical</b>				
Flexural Modulus	23°C	ISO 178	1250	MPa
Charpy Impact Strength, notched	23°C	ISO 179	11.0	kJ/m <sup>2</sup>
Charpy Impact Strength, notched	-30°C	ISO 179	4.0	kJ/m <sup>2</sup>
Tensile strength at yield	23°C, Type 1 BA	ISO527-2	31.4	MPa
Tensile elongation at yield	23°C, Type 1 BA	ISO527-2	9.6	%
FNCT	50°C, 2% Arkopal N100, 5 mPa	ISO16770	>45	hours

Data should not be used for specification work

**REGULATORY INFORMATION**

The product and uses described herein may be subject to specific requirements or limitations for use in certain applications like food contact, drinking water or medical devices. Further information may be obtained from the website [www.ineos.com](http://www.ineos.com) where a specific Regulatory Certificate is available for each grade under the heading "SDS & Regulatory Certificate".

Unless specifically indicated, the product mentioned herein is not suitable for applications in the medical or pharmaceutical sectors.

**HEALTH AND SAFETY INFORMATION**

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Safety Data Sheet (SDS) that may be obtained from the website [www.ineos.com](http://www.ineos.com). Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

**EXCLUSION OF LIABILITY**

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