

# Recycl-IN rHD5502WT



## 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.

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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