

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
- / 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
Physical				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	0.2	g/10min
Density		ISO 1183-1 & ISO 17855-1	955	kg/m ³
Mechanical				
Flexural Modulus	23°C	ISO 178	1300	MPa
Charpy Impact Strength, notched	23°C	ISO 179	13.0	kJ/m ²
Charpy Impact Strength, notched	-30°C	ISO 179	5.0	kJ/m ²
Tensile strength at yield	23°C, Type 1 BA	ISO 527-2	30.0	MPa
Tensile elongation at yield	23°C, Type 1 BA	ISO 527-2	9.5	%
FNCT	50°C, 2% Arkopal N100, 5 MPa	ISO 16770	>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 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. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

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