

# Recycl-IN rHD5402



## DATA SHEET

### Product Technical Information

High density polyethylene resin containing at least 50% weight of post-consumer recyclate

### Benefits & Features

Recycl-IN rHD5402 is a ready to use high density polyethylene grade containing at least 50% post- consumer recyclate and supplied in pellet form. It has an outstanding stiffness and environmental stress crack resistance (ESCR) balance making it ideal for use in a wide range of blow moulding applications. The grade is particularly well suited to chemical and detergent packaging as the exceptional ESCR can allow for significant bottle weight reduction.

- / High rigidity
- / Outstanding environmental stress cracking resistance
- / High impact strength
- / Easy processing

### Applications

- / Blow moulded containers up to 10 litres capacity for packaging chemicals, many household products and oils. This grade is not suitable for food packaging or pharma/medical applications
- / Sheet extrusion

### 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	954	kg/m <sup>3</sup>
<b>Mechanical</b>				
Tensile Strength at Yield	23°C, Type 1 BA	ISO 527-2	27	MPa
Elongation at break	23°C, Type 1 BA	ISO 527-2	>300	%
Flexural Modulus	23°C	ISO 178	1100	MPa
Charpy Impact Strength	23°C	ISO 179	12	KJ/m <sup>2</sup>
FNCT	50°C, 2% Arkopal N100, 5MPa	ISO 16770	>45	hours
BTT stress crack resistance	F50 at 50°C, 100% concentration	ASTM D 1693	>200	hours

Data should not be used for specification work