

# Recycl-IN rHD5402WT



## PROVISIONAL DATA SHEET

### Product Technical Information

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

### Benefits & Features

Recycl-IN rHD5402WT is a white, ready to use high density polyethylene grade containing 50% post-consumer recyclate and supplied in pellet form. It has an outstanding stiffness and good environmental stress crack resistance (ESCR) balance making it ideal for use in a wide range of blow moulding applications.

- / High rigidity
- / Good environmental stress cracking resistance
- / High impact strength
- / Easy processing
- / Excellent quality consistency

### 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.

# Recycl-IN rHD5402WT



| 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<br>& ISO 17855-1 | 970    | kg/m <sup>3</sup> |
| <b>Mechanical</b>              |                                    |                             |        |                   |
| Tensile Strength at Yield      | 23°C, Type 1 BA                    | ISO 527-2                   | 34     | MPa               |
| Elongation at break            | 23°C, Type 1 BA                    | ISO 527-2                   | 300    | %                 |
| Flexural Modulus               | 23°C                               | ISO 178                     | 1250   | MPa               |
| Notched Charpy Impact Strength | 23°C                               | ISO 179                     | 6.5    | kJ/m <sup>2</sup> |
| FNCT                           | 50°C, 2% Arkopal N100,<br>5MPa     | ISO 16770                   | 35     | hours             |
| BTT stress crack resistance    | F50 at 50°C,<br>100% concentration | ASTM D 1693                 | >110   | hours             |

Data should not be used for specification work