

INEOS Olefins &amp; Polymers Europe

## Recycl-IN rLL9125



## DATA SHEET

## Product Technical Information

Recycl-IN rLL9125 is a natural hybrid polyethylene containing 60% of post-consumer recycle.

## Benefits &amp; Features

Recycl-IN rLL9125 is a ready to use hybrid polyethylene containing 60% of post-consumer recycle (PCR)-and supplied in a pellet form. The product is made from selected PCR materials and virgin resins. Recycl-IN rLL9125 contains a minimum of 85% of linear low density polyethylene.

Recycl-IN rLL9125 is characterised by a mechanical strength similar to those of virgin materials, and it offers the following properties when extruded in a cast film:

- / Excellent web and neck-in stability during extrusion
- / High puncture resistance
- / Good overall film appearance and transparency

## Applications

Recycl-IN rLL9125 has been developed for use in cast films extrusion process and non-food flexible packaging applications such as stretch wrap films. It can also be used as a carrier for compounds and masterbatches.

Recycl-IN rLL9125 can be used pure or as a blending partner with other polyolefins. In addition, Recycl-IN rLL9125 offers easy extrudability.

We recommend that you consult your INEOS technical representative for further advice on the use of Recycl-IN rLL9125.

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# Recycl-IN rLL9125



| Properties                      | Conditions   | Test Methods      | Values    | Units   |
|---------------------------------|--------------|-------------------|-----------|---------|
| <b>Rheological</b>              |              |                   |           |         |
| Melt Flow Rate                  | 190°C/2.16Kg | ISO 1133-1        | 2.4       | g/10min |
| <b>Physical</b>                 |              |                   |           |         |
| Density ISO 1872-1              | 23°C         | ISO 1183-2        | 918       | kg/m³   |
| <b>Mechanical(*)</b>            |              |                   |           |         |
| Puncture Resistance, energy     |              | INEOS Test Method | 16.1      | J       |
| Tensile strength at break MD/TD |              | ISO 527-3         | 45 / 18   | MPa     |
| Tensile strain at break MD/TD   |              | ISO 527-3         | 570 / 490 | %       |
| 1% Secant modulus MD/TD         |              | ISO 527-3         | 120 / 120 | MPa     |
| Elmendorf tear strength MD/TD   |              | ASTM D 1922       | 230 / 340 | g/25µm  |
| <b>Optical(*)</b>               |              |                   |           |         |
| Haze                            | 25µm         | ASTM D 1003       | 4         | %       |
| Gloss                           | 45°C         | ASTM D 2457       | 84        | %       |

Data should not be used for specification work

(\*)30 µm cast film, 230°C melt temperature – MD = machine direction, TD = transverse direction

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### Processing Guidelines

Recycl-IN rLL9125 in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.

For best cast film performance, rLL9125 should be processed on machinery purpose designed for LLDPE. Particular attention should be paid to controlling melt temperature, and to ensuring that casting conditions are optimal. Melt temperatures in the range 240°C - 280°C are normally used

### 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.

#### 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.

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