

Recycl-IN rLL9125

Recycl-IN

Product Technical Information

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

Benefits & Features

Recycl-IN rLL9125 is a ready to use hybrid polyethylene containing 60% of post-consumer recyclate (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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Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	2.35	g/10min
Physical				
Density ISO 1872-1	23°C	ISO 1183-2	918	kg/m ³
Mechanical(*)				
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
Optical(*)				
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.

Recycl-IN rLL9125 rich film formulations are often processed on modified LDPE machinery, but for the best performance the use of purposely designed LLDPE machinery is recommended. Particular attention should be paid to maintaining a low melt temperature, and an efficient bubble cooling system should be employed. The recommended melt temperature range is 190 - 230°C.

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 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.

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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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