INEOS Olefins & Polymers Europe

Recycl-IN rLL9125

Recycl-IN

DATA SHEET

Product Technical Information

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

Benefits & 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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Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	2.4	g/10min
Physical				
Density ISO 1872-1	23°C	ISO 1183-2	918	kg/m³
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.

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.