INEOS Olefins & Polymers Europe

Recycl-IN rLL9610

Recycl-IN

DATA SHEET

Product Technical Information

Recycl-IN rLL9610 is a natural hybrid polyethylene containing 70% of post-consumer recyclate.

Benefits & Features

Recycl-IN rLL9610 is a ready-to-use hybrid polyethylene compound containing 70% of post-consumer recyclate (PCR) and supplied in a pellet form. The product is made from selected PCR materials and virgin resins. Recycl-IN rLL9610 contains over 70% of linear low density polyethylene.

This resin presents:

/ Good balance between stiffness and film strength
/ Good optical properties
/ Good processability

Applications

Recycl-IN rLL9610 is a blown film resin developed for use in non-food applications such as doypacks, secondary packaging, liners, FFS,…

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Properties	Conditions	Test Methods	Values	Units
Physical				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	1.4	g/10min
Density		ISO 1183-1 & ISO 17855-1	926	kg/m³
Film(*)				
Dart drop impact	Method A	ASTM D1709	150	g
Elmendorf tear strength	MD/TD	ISO 1184	120 / 520	g/25µm
Tensile stress @ yield	MD/TD	ISO 1184	14 / 14	MPa
Tensile stress @ break	MD/TD	ISO 1184	39 / 31	MPa
Elongation @ break	MD/TD	ISO 1184	640 / 760	%
1% Secant Modulus	MD/TD	ISO 1184	280 / 300	MPa
Haze		ASTM D1003	18	%
Gloss (45°)		ASTM D2457	40	‰

Data should not be used for specification work

(*) 25 µm film, 2.5:1 blow-up ratio, 200 °C melt temperature – MD = machine direction, TD = transverse direction

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Processing Guidelines

Recycl-IN rLL9610 in lean blends can be processed on most standard extrusion equipment. Optimization of conditions may be necessary, depending on the exact blend used. 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.

Disclaimer

Although **Recycl-IN™** compounds offer Polyethylene virgin-like characteristics, they contain high levels of mechanically recycled post-consumer waste and, therefore, are not free from any gel, black spot, or other impurities. INEOS O&P Europe is taking all possible measures to avoid or minimise the presence of these defects but cannot guarantee their total absence.

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