

INEOS Olefins & Polymers Europe

Recycl-IN rLD23E760

Recycl-IN

Product Technical Information

Recycl-IN rLD23E760 is natural hybrid polyethylene containing 60% of post-consumer recyclate.

Benefits & Features

Recycl-IN rLD23E760 is a ready-to-use hybrid polyethylene compound 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 rLD23E760 contains a minimum of 60% of low density polyethylene.

This resin presents:

- / Very high impact strength
- / Good bubble stability
- / Good shrinking potential

Applications

Recycl-IN rLD23E760 is a blown film resin developed for use in non-food applications such as shrink films, shrink hoods, heavy duty films,...

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Properties		Test Methods	Values	Units
Physical				
Melt flow rate		ISO 1133 Condition 4	0.55	g/10min
Density		ISO 1183 Method D	925	kg/m³
Film(*)				
Dart drop impact	Method A	ASTM D1709	182	g
Elmendorf tear strength	MD/TD	ASTM D1922	82 / 253	g/25µm
Tensile stress @ yield	MD/TD	ISO 1184	15 / 11	MPa
Tensile stress @ break	MD/TD	ISO 1184	19 / 23	MPa
Elongation @ break	MD/TD	ISO 1184	380 / 595	%
1% Secant Modulus	MD/TD	ISO 1184	190 / 250	MPa
Haze		ASTM D1003	21	%
Gloss (45°)		ASTM D2457	33	‰

Data should not be used for specification work

(*) 50 µm film, 3:1 blow-up ratio, 180 °C melt temperature – MD = machine direction, TD = transverse direction

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Processing Guidelines

Recycl-IN rLD23E760 can be processed on most standard extrusion equipment. 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 160 - 185°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.

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. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

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