



JF19010

LINEAR LOW DENSITY POLYETHYLENE BLOWN FILM GRADE

This is a Butene comonomer based Linear Low Density Polyethylene (LLDPE), with optimum levels of antioxidants, slip and antiblock. This grade is designed for blown film applications. It has excellent draw down characteristics with very good toughness, tensile strength and tear resistance.

Additives details:

- Slip: Yes
- Antiblock: Yes
- Heat Stabilizer: Yes

TYPICAL CHARACTERISTICS*

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Density (23°C)	ASTM D 792	g/cc	0.920
Melt Flow Index (190°C / 2.16 Kg)	ASTM D 1238	g/10 min.	1.1
Film Properties**			
Tensile Strength at Yield (MD / TD)	ASTM D 882	MPa	13.0 / 14.0
Ultimate Tensile Strength (MD / TD)	ASTM D 882	MPa	50.0 / 36.0
Elongation at Break (MD / TD)	ASTM D 882	%	800 / 1000
Dart Impact Strength, F50 (38 mm dart, 66 cm height)	ASTM D 1709	g/μm	3.5
Tear Strength (MD / TD)	ASTM D 1922	g/μm	5.0 / 15.0
Haze	ASTM D 1003	%	13
Gloss (60°)	ASTM D 2457	-	75

* Typical characteristics and not to be taken as specifications

** Typical properties measured on 40 μm film made with 1.8 mm die gap & 2.50 BUR

APPLICATIONS:

Mono & Multilayer Blown films for liner bags, films for liquid and industrial consumer packaging, shrink film, shipping sacks, agricultural film etc.

Reliance Industries Limited, Product Application & Research Centre (PARC), Vadodara Manufacturing Division, P. O. Petrochemicals, Village Koyali,
District Vadodara: Pin 391346, Gujarat, India.
E-mail: polymer_patsupport@ril.com Website: www.ril.com

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Typical Process Conditions:

- Typical Process Temp (°C) - 180 – 220
- Recommended Blow Up Ratio (BUR): 2.0 – 3.0

Regulatory Information

- Meets the requirements stipulated in standard IS: 10146 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to IS 16738:2018 "Positive List of Constituents for Polypropylene, Polyethylene and their Copolymers for its Safe Use in Contact with Foodstuffs and Pharmaceuticals"
- The grade and the additives incorporated in it also comply with the FDA: CFR Title 21,177.1520, Olefin polymers.

Storage Recommendations

- Bags should be stored in dry/closed conditions at temperatures below 50°C and protected from UV / direct sunlight.

DISCLAIMER

The information contained herein may include typical properties and processing parameters of the grade or its typical performances when used in respective applications. The values given above are based on analysis of representative samples and not the actual product supplied. It is the customer's responsibility to inspect and test our grades in order to satisfy itself as to the suitability of the products for customers' particular application. The customer is solely responsible for all determinations regarding any use of material or product and any process in its area of interest. RIL assumes no obligation or liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of using any of the information or product given in this document. The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorized agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.