



JF18020

LINEAR LOW DENSITY POLYETHYLENE FILM EXTRUSION GRADE

This is a butene based Linear Low Density Polyethylene grade with Optimum level of Antioxidants. This grade does not contain any slip or antiblock, designed for good processing on Blown & Cast Film lines with excellent balance of mechanical & optical properties.

Additives details:

JF18020: ● Slip: Nil ● Antiblock: Nil ● Heat Stabilizer: Yes

TYPICAL CHARACTERISTICS*

Property	Test Method	Unit	Typical Value**
Density (23°C)	ASTM D 792	g/cm ³	0.920
Melt Flow Index (190°C / 2.16 Kg)	ASTM D 1238	g/10 min	2.3
Film Properties**			
Tensile Strength at Break (MD/TD)	ASTM D 882	MPa	38/20
Elongation at Break (MD / TD)	ASTM D 882	%	500/800
Dart Impact Strength, F50	ASTM D 1709A	g/μm	1.9
Tear Strength (MD / TD)	ASTM D 1922	g/μm	1.8 / 16
Haze	ASTM D 1003	%	0.8
Gloss (20°)	ASTM D 2457	-	105

* Typical characteristics and not to be taken as specifications

** Typical values of 25 μ cast film made with following parameters: Cast line output – 20 kg/hr, Melt Temperature - 270°C, Die Length – 600 mm, Die Gap – 0.8 mm, Chill Roll temp – 18°C, Line speed – 15 mpm

APPLICATIONS:

Blown & Cast film for Industrial Packaging, Stretch Wrap, Cling film for food or hygiene packaging, Bubble Wrap, Protective Packaging and Lamination film.

Typical Process Conditions for Cast film:

- Typical Process Temp (°C) - 180 – 240
- Die Gap – 0.7 -1.5 mm

Regulatory Information

- Meets the requirements stipulated in standard IS: I0146 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.