



F18030

LINEAR LOW DENSITY POLYETHYLENE FILM EXTRUSION GRADE

Relene F18030 is a butene based Linear Low Density Polyethylene grade with Optimum level of Antioxidants & without Slip & Anti block and is designed for good processing on Cast Film lines with balanced mechanical & optical properties

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Melt Flow Index (190 ⁰ C / 2.16 Kg)	ASTM D 1238	g/10 min.	3.0
Density (23 ⁰ C)	ASTM D 792	g/cm ³	0.920
Film Properties			
Tensile Strength at Yield (MD / TD)	ASTM D 882	MPa	12 / 10
Tensile Strength at Break (MD/TD)	ASTM D 882	MPa	30 / 20
Elongation at Break (MD / TD)	ASTM D 882	%	450 / 650
Tear Strength (MD / TD)	ASTM D 1922	g/μm	2.5 / 11.0
Dart Impact Strength, F ₅₀ (38 mm dart, 66 cm height)	ASTM D 1709A	g/ μm	2.3
Haze	ASTM D 1003	%	2.0
Gloss @ 60 ⁰	ASTM D 2457		95

* 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:

Co ex Films, Stretch & Cling Films, Hygiene Films, Personal Care, General Purpose packaging.

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.
- F18030 is not intended for use in medical and pharmaceutical applications.

Storage Recommendations

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

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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.