

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 ^o C / 2.16 Kg)	ASTM D 1238	g/10 min.	3.0
Density (23 ^o 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, F50 (38 mm dart, 66 cm height)	ASTM D 1709A	g/ μm	2.3
Haze	ASTM D 1003	%	2.0
Gloss @ 60 ^o	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.