



## 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
<b>Film Properties**</b>			
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.

**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.