



**GAIL (India) Ltd.**  
India's Youngest Maharatna

# F18S010U

## Linear Low Density Polyethylene Film

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### Product Description and Typical Applications:

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F18S010U is a Linear low density polyethylene (LLDPE) resin for blown film extrusion offering excellent processability with optimum balance of mechanical and optical properties. It has adequate level of slip and anti-blocking agent for good openability and slip characteristics of the film. It offers excellent drawdown capability for thinner gauge films. Its low gel count, resistance to leakage & pinholes, excellent sealing characteristics make it preferred choice for consumers in Industrial/ consumer packaging for various applications.

It is recommended for general purpose, heavy duty and liquid packaging in laminated/ non-laminated blown film applications.

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| Property                          | Values* | Unit               | Test Method |
|-----------------------------------|---------|--------------------|-------------|
| Melt Flow Index (I <sub>2</sub> ) | 1.0     | g/10min            | ASTM D1238  |
| Density                           | 0.918   | g/cc               | ASTM D1505  |
| Tensile Strength @Break (MD/TD)   | 400/270 | kg/cm <sup>2</sup> | ASTM D882   |
| Elongation @Break (MD/TD)         | 580/750 | %                  | ASTM D882   |
| Tear Strength (MD/TD)             | 6/15    | g/ mic             | ASTM D1922  |
| Dart Impact Strength              | 3.0     | g/mic              | ASTM D1709  |

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\* Typical characteristics of the product given purely as a guide. Film properties were measured on 25.4 micron blown film extruded at a blow up ratio (BUR) 2.5.

### Processing Guidelines:

Barrel temperature: 180 - 220°C

Blow up ratio: 2.0 to 3.0

### Regulatory Information:

Certificate is available on request.

### Packaging & Storage:

F18S010U is available in natural colour/pellet form in 25 kg strong bags made of woven fabric. The product should be stored in dry conditions at temperature below 50°C and protected from UV light.

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*For any technical assistance contact:*

#### **GAIL Polymer Technology Centre**

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The information, data and suggestions contained herein are to the best of our knowledge accurate and reliable. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user specific application.