



GAIL (India) Ltd.
(A Govt. of India Undertaking)
Petrochemicals Marketing

F18S010U

Linear Low Density Polyethylene Film

Product Description and Typical Applications:

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 contains slip and anti-blocking additives for good slip and openability 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. The material conforms to natural resin designation IS 7328-2B-FBH-BXDA of IS 7328:2020.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	1.0	g/10min	ASTM D1238
Density @ 23°C	0.918	g/cc	ASTM D1505
Tensile Strength @ Break (MD/TD)	400/270	kg/cm ²	ASTM D882
Elongation @ Break (MD/TD)	580/750	%	ASTM D882
Tear Strength (MD/TD)	3/15	g/ mic	ASTM D1922
Dart Impact Strength	3.0	g/mic	ASTM D1709
COF (Static/Dynamic)	0.20/0.18	-	ASTM D1894

* 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 woven sacks. The product should be stored in dry conditions at temperature below 50°C and protected from UV light.

For any technical assistance contact:

GAIL Polymer Technology Centre, GAIL (India) Limited

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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.