



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

F20S009

Linear Low Density Polyethylene for Blown Film Extrusion

Product Description and Typical Applications:

F20S009 is recommended for general purpose, heavy duty and liquid packaging in laminated/non-laminated film applications. It has excellent processability with optimum combination of mechanical, optical and sealing characteristics. The material conforms to natural resin designation IS 7328-2B-FBH-BXDA of IS 7328:2020 and optimally stabilized with antioxidants, slip, antiblocking and processing aid additives.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	0.9	g/10min	ASTM D1238
Density @ 23°C	0.920	g/cc	ASTM D1505
Tensile Strength @ Break (MD/TD)	350/300	kg/cm ²	ASTM D882
Elongation @ Break (MD/TD)	650/750	%	ASTM D882
Tear Strength (MD/TD)	3/10	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: 170 - 200°C

Blow up ratio: 2.0 to 3.0

Die gap: 1.8 to 2.2

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

F20S009 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

PARC Building, Plot No. 24, Sector-16A, Noida, (U.P.) India – 201301

Ph.: 0120-2515353/354/355/363 Fax No.: 0120-2511134, Website: www.gailonline.com

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.