



## GAIL (India) Ltd.

(A Govt. of India Undertaking)

### Petrochemicals Marketing

## F55HM0003/F55HM0003N

### High Density Polyethylene for Film Extrusion

#### Product Description and Typical Applications:

**F55HM0003/F55HM0003N** is a blown film high density polyethylene grade of high molecular weight, possessing bi-modal molecular weight distribution for better processability with excellent mechanical properties. The combination of high strength and excellent drawdownability makes this grade an ideal material for thin gauge film applications. It is recommended for film applications like; carry bags, shopping bags, trash bags, grocery bags industrial liners etc. The material conforms to natural resin designation IS 7328-3B-FBE-FXDA of IS 7328:2020.

Property	Values*	Unit	Test Method
Melt Flow Index (I <sub>2</sub> )	0.09	g/10min	ASTM D1238
Melt Flow Index (I <sub>21</sub> )	13	g/10min	ASTM D1238
Density @ 23°C	0.954	g/cc	ASTM D1505
Tensile Strength @ Break (MDTD)	400/350	kg/cm <sup>2</sup>	ASTM D882
Elongation @ Break (MD/TD)	400/500	%	ASTM D882
Tear Strength (MD/TD)	1/5	g/mic	ASTM D1922
Dart Impact Strength	5	g/mic	ASTM D1709
Vicat Softening Point	123	°C	ASTM D1525

\* Typical characteristics of the product given purely as a guide. Film properties were determined on Film Thickness = 20 micron, BUR = 4.0

#### Processing Guidelines:

Barrel temperature: 180 - 220°C

#### Regulatory Information:

Certificate is available on request.

#### Packaging & Storage:

F55HM0003/F55HM0003N 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.