



GAIL (India) Ltd.

(A Govt. of India Undertaking)
Petrochemicals Marketing

E45A003

High Density Polyethylene for Blown Film

Product Description and Typical Applications:

E45A003 is recommended to use in blend with LD/LLDPE in blown film extrusion for producing co-extruded laminated/non laminated films for various applications. It has excellent processability with moderate stiffness. The material conforms to natural resin designation IS 7328-3B-FB-DXDA of IS 7328:2020.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	0.6	g/10min	ASTM D1238
Density @ 23°C	0.945	g/cc	ASTM D1505
Tensile Strength @ Break (MD/TD)	400/350	kg/cm ²	ASTM D 882
Elongation @ Break (MD/TD)	750/900	%	ASTM D 882
Tear Strength (MD/TD)	0.3/4	g/mic	ASTM D1922
Dart Impact Strength	2	g/mic	ASTM D1709
ESCR (10% Igepol), F ₅₀	350	hrs	ASTM D1693
Vicat Softening Point	117	°C	ASTM D1525

* Typical characteristics of the product given purely as a guide. Film properties were measured on 40-micron film made with 0.8 mm die gap and BUR 3.0.

Processing Guidelines:

Barrel temperature: 170 - 210 °C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

E45A003 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:

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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.