



GAIL (India) Ltd.

(A Govt. of India Undertaking)

Petrochemicals Marketing

B52A003/B52A003N

High Density Polyethylene for Blow Moulding

Product Description and Typical Applications:

B52A003/B52A003N is recommended for small size containers upto 5L for foodstuffs (edible oil, ghee etc.), lube oil, toiletries, cosmetics, pharmaceuticals etc. It offers an optimum combination of toughness, stress cracking resistance and processability. The material conforms to natural resin designation IS 7328-3B-BB-FXDA of IS 7328:2020.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	0.42	g/10min	ASTM D1238
Density @ 23°C	0.954	g/cc	ASTM D1505
Tensile Strength @ Yield	240	kg/cm ²	ASTM D638, Type IV
Elongation @ Yield	10	%	ASTM D638, Type IV
Flexural Modulus	10000	kg/cm ²	ASTM D790
Izod Impact Strength	120	J/m	ASTM D256
Shore D Hardness	62	-	ASTM D2240
ESCR (10% Igepol), F ₅₀	>500	hrs	ASTM D1693
Vicat Softening Point	123	°C	ASTM D1525

* Typical characteristics of the product given purely as a guide. Mechanical properties were determined on compression moulded specimens.

Processing Guidelines:

Barrel temperature: 155 - 190°C

Mold temperature: 25 - 40°C

Blowing pressure: 2 to 6 kg/cm²

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

B52A003/B52A003N 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.