



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

B52A003

B52A003N

High Density Polyethylene for Blow Moulding

Application: B52A003/B52A003N is recommended for small size containers upto 5L for foodstuffs (edible oil, ghee etc.), industrial chemicals (detergents, pesticides, paints, solvents etc.), lube oil, toiletries & cosmetics. It offers an optimum combination of toughness, stress cracking resistance and processability.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	0.35	gm/10min	ASTM D1238
Density	0.954	gm/cc	ASTM D1505
Tensile Strength @Yield	240	kg/cm ²	ASTM D638, Type IV
Elongation @Yield	11	%	ASTM D638, Type IV
Flexural Modulus	10000	kg/cm ²	ASTM D790
Izod Impact Strength	180	J/m	ASTM D256
Shore D Hardness	62	-	ASTM D2240
Vicat Softening Point	123	°C	ASTM D1525
ESCR (10% Igepol), F ₅₀	>500	hrs	ASTM D1693B

* 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 strong bags made of woven fabric. 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

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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.