



GAIL (India) Ltd.

(A Govt. of India Undertaking)

Petrochemicals Marketing

W52A009/W52A009N

High Density Polyethylene for Tape/Monofilament Extrusion

Product Description and Typical Applications:

W52A009/W52A009N is widely used for medium tenacity stretched tape applications in woven sacks like flour packaging, industrial packaging, tarpaulin etc. It combines excellent processability with good elongation. It can also be used in medium tenacity monofilament products like fishing nets. The material conforms to natural resin designation IS 7328-3B-TB-FXDA of IS 7328:2020.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	0.9	g/10min	ASTM D1238
Density @ 23°C	0.952	g/cc	ASTM D1505
Tensile Strength @ Yield	240	kg/cm ²	ASTM D638, Type IV
Elongation @ Yield	11	%	ASTM D638, Type IV
Elongation @ Break	>600	%	ASTM D638, Type IV
Flexural Modulus	9500	kg/cm ²	ASTM D790
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: 200 - 250°C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

W52A009/W52A009N 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.