



GAIL (India) Ltd.

(A Govt. of India Undertaking)

Petrochemicals Marketing

W50A009

High Density Polyethylene for Tape Extrusion

Product Description and Typical Applications:

W50A009 is recommended for manufacturing tapes of high strength (tenacity) and good elongation. Its application includes woven sacks for packaging of fertilizer, food grain, sugar, salt and other Industrial products. It provides excellent processability and orientation characteristic with low water carry over. 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	230	kg/cm ²	ASTM D638, Type IV
Elongation @ Yield	13	%	ASTM D638, Type IV
Flexural Modulus	8500	kg/cm ²	ASTM D790
Vicat Softening Point	122	°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 - 260°C

Die temperature: 245 - 260°C

Stretch ratio: 5.3 - 5.6

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

W50A009 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.