



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

W52ASR009

W52ASR009N

High Density Polyethylene for Monofilament Extrusion

Application: W52ASR009/W52ASR009N is recommended for high tenacity monofilament applications like ropes, twines, fishing/sporting nets etc. It exhibits excellent processability with optimum balance between linear strength and knot strength.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	0.5	gm/10min	ASTM D1238
Density	0.964	gm/cc	ASTM D1505
Tensile Strength @Yield	275	kg/cm ²	ASTM D638, Type IV
Elongation @Yield	10	%	ASTM D638, Type IV
Elongation @Break	>600	%	ASTM D638, Type IV
Flexural Modulus	12000	kg/cm ²	ASTM D790
Vicat Softening Point	127	°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: 220 - 270⁰C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

W52ASR009/W52ASR009N 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.

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