



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

## **W55A004/W55A004N**

### **High Density Polyethylene for Monofilament Extrusion**

#### **Product Description and Typical Applications:**

**W55A004/W55A004N** has a very narrow molecular weight distribution. It is characterized by good processability and optimum combination of strength and elongation. It is especially designed to manufacture high tenacity monofilament yarn for fishing nets, ropes etc. The material conforms to natural resin designation IS 7328-3B-LB-FXDA of IS 7328:2020.

<b>Property</b>	<b>Values*</b>	<b>Unit</b>	<b>Test Method</b>
Melt Flow Index (I <sub>2</sub> )	0.45	g/10min	ASTM D1238
Density @ 23°C	0.955	g/cc	ASTM D1505
Tensile Strength @ Yield	250	kg/cm <sup>2</sup>	ASTM D638, Type IV
Elongation @ Yield	10	%	ASTM D638, Type IV
Elongation @ Break	>600	%	ASTM D638, Type IV
Flexural Modulus	10000	kg/cm <sup>2</sup>	ASTM D790
Izod Impact Strength	DNB	j/m	ASTM D256
Shore D Hardness	63	-	ASTM D 2240
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 - 270°C

#### **Regulatory Information:**

Certificate is available on request.

#### **Packaging & Storage:**

W55A004/W55A004N 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**

PARC Building, Plot No. 24, Sector-16A, Noida, (U.P.) India – 201301

Ph.: 0120-2515353/354/355/363 Fax No.: 0120-2511134, Website: [www.gailonline.com](http://www.gailonline.com)

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.