



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

Y50A010U

High Density Polyethylene for Monofilament & Raffia

Product Description and Typical Applications:

Y50A010U offers an optimum balance of strength and elongation which makes it suitable for low denier monofilament applications like Fishing and Mosquito Net. It is also suitable for low denier stretched tape applications like Tarpaulin etc. 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)	1.0	gm/10min	ASTM D1238
Density @ 23°C	0.950	gm/cc	ASTM D1505
Tensile Strength @ Yield	250	kg/cm ²	ASTM D638, Type IV
Elongation @ Yield	10	%	ASTM D638, Type IV
Flexural Modulus	9000	kg/cm ²	ASTM D790
Vicat Softening Temperature	126	°C	ASTM D1525

* Typical characteristics of the product given purely as a guide. Mechanical properties were determined on compression molded specimens.

Processing Guidelines:

Barrel temperature: 200 - 260°C

Die temperature: 245 - 260°C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

Y50A010U 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.