



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

R36U050U (UV Stabilized) **Linear Low Density Polyethylene for Rotomoulding**

Product Description and Typical Applications:

R36U050U is duly stabilized with UV stabilizer for long service life under outdoor exposure for colored products. It provides excellent processability with optimum combination of impact toughness and ESCR. It is widely used for manufacturing water storage tanks for domestic and industrial purpose, bins, road dividers, playground equipment, toys, boats etc. The material conforms to natural resin designation IS 7328-2B-RD-CXDC of IS 7328:2020.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	4.5	g/10min	ASTM D1238
Density @ 23°C	0.936	g/cc	ASTM D1505
Tensile Strength @ Yield	170	kg/cm ²	ASTM D638
Elongation @ Yield	15	%	ASTM D638
Flexural Modulus	6200	kg/cm ²	ASTM D790
ESCR (10% Igepol), F ₅₀	>192	hrs	ASTM D1693

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

Processing Guidelines:

Oven temperature: 240 - 280°C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

R36U050U 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

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.