



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

R35A042

Linear Low Density Polyethylene for Rotomoulding

Product Description and Typical Applications:

R35A042 is recommended for manufacturing water storage tanks, chemical tanks, bins, automotive parts, playground equipment, material handling parts, toys, boats, vending machines etc. It is recommended to add UV additive for outdoor color products. It provides excellent processability with optimum combination of impact toughness and ESCR. The material conforms to natural resin designation IS 7328-2B-RB-CXDC of IS 7328:2020.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	4.2	g/10min	ASTM D1238
Density @ 23°C	0.935	g/cc	ASTM D1505
Tensile Strength @ Yield	185	kg/cm ²	ASTM D638, Type IV
Elongation @ Yield	16	%	ASTM D638, Type IV
Flexural Modulus	6000	kg/cm ²	ASTM D790
ESCR (10% Igepol), F ₅₀	24	hrs	ASTM D1693
Vicat Softening Point	115	°C	ASTM D1525

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

Processing Guidelines:

Oven temperature: 240 - 280°C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

R35A042 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.