

Linear Low Density Polyethylene

Rotational Molding

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Product Description:

042R35A is a medium density polyethylene manufactured using Nova Chemical's Sclairtech Solution Polymerization Technology. 042R35A is a natural colored polymer with very good Processability and good mechanical properties.

Recommended Applications:

LLDPE 042R35A is designed to make:

- Overhead water tanks & Loft tanks
- Septic & Chemical storage tanks
- Toys and Furniture

Typical Properties:

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190 ⁰ C & 2.16 Kg)	ASTM D 1238	gm/10 min	4.8
Density @ 23°C	ASTM D 1505	gm/cm ³	0.935
Mechanical Properties			
Tensile Yield Strength	ASTM D 638	MPa	15
Ultimate Tensile Strength	ASTM D 638	MPa	20
Elongation at Break	ASTM D 638	%	>600
Flexural Yield Strength	ASTM D 790	MPa	13
Flexural Modulus	ASTM D 790	MPa	450
Notched Izod Impact Strength @ 23°C	ASTM D 256	J/m	>500
Hardness	ASTM D 2240	Shore D	55
Thermal Properties			
Vicat Softening Point (10 N)	ASTM D 1525	°C	117

* Typical values not to be construed as specification limits. Values may change without any prior notice.

* Mechanical properties tested on injection molded specimen.

Recommended Processing Temperature: 170 – 215 °C

Packaging Information:

This material is packed and available in raffia bags with net content of 25.0 Kg only. The raffia bags used conforms to the minimum strength requirements of BIS, however, customer shall take due care while handling the bag. Prolonged exposure of these bags to sunlight may deteriorate the bag's performance and cause spillage and wastage. IOCL does not warrant loss of material due to poor material handling practices.

Regulatory Information:

LLDPE 042R35A shall meet Specification for Polyethylene for safe use in contact with Foodstuff, Pharmaceuticals and Drinking water" as per IS: 10146-1982. It also confirms to the positive list of constituents as per IS: 10141-1982. The grade and Additives incorporated shall meet with FDA: CFR Title 21, 177.1520, Olefin Polymers.

Storage & Handling:

Prevent LLDPE Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the Storage temperature should not exceed 50 °C. Non - compliance to these precautionary measures can lead to degradation of the product causing Color changes, Odor & inadequate product performance. It is advised to process LLDPE material within 06 months after delivery.

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