

## Linear Low Density Polyethylene

## Rotational Molding

### Product Description:

LLDPE 040R40A is a medium density polyethylene made with state of the art Nova Chemical's Sclairtech solution polymerization technology. It is a natural colored polymer with very good Impact Stiffness balance and Hardness.

### Typical Properties:

### Recommended Applications:

LLDPE 040R40A is recommended for following applications:

- Medium and Large Tanks
- Manholes and Chambers
- Septic tanks

Tested Properties	Test Method	UOM	Values*
<b>Resin Properties</b>			
Melt Flow Index (190°C & 2.16 Kg)	ASTM D 1238	gm/10 min	3.6
Density @ 23°C	ASTM D 1505	gm/cm <sup>3</sup>	0.940
<b>Mechanical Properties</b>			
Tensile Strength @ Yield	ASTM D 638	MPa	21
Elongation at Break	ASTM D 638	%	>600
Notched Izod Impact Strength	ASTM D 256	J/m	220
Flexural Modulus	ASTM D790	Mpa	900
Hardness	ASTM D 2240	Shore D	58
<b>Thermal Properties</b>			
Vicat Softening Point (10N)	ASTM D1525	°C	118

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

\* Mechanical Properties tested on Injection Molded test specimens.

**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 warranty loss of material due to poor material handling practices.

### Regulatory Information:

LLDPE 040R40A 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 Title21, 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 no exceed 50°C. Non - compliance to these precautionary measures can lead to degradation of the product causing color changes, odor and inadequate product performance. It is advised to process LLDPE material within 06 months of delivery.

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