

Linear Low Density Polyethylene

Injection Molding

Product Description:

500M24A is a butene co monomer based Linear Low Density Polyethylene manufactured using Nova Chemical's Sclairtech Solution Polymerization Technology. 500M24A is a natural colored polymer with narrow molecular weight distribution, excellent processability and flow properties.

Recommended Applications:

LLDPE 500M24A is designed as base resin for master batches and to make molding of flat and large warpage-free products/lids.

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Typical Properties:

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190°C & 2.16 Kg)	ASTM D 1238	gm/10 min	50
Density @ 23°C	ASTM D 1505	gm/cm ³	0.924
Mechanical Properties			
Tensile Yield Strength	ASTM D 638	MPa	11
Elongation at Break	ASTM D 638	%	>500
Flexural Modulus	ASTM D 790	MPa	300
Thermal Properties			
Vicat Softening Point (10 N)	ASTM D 1525	°C	98

* 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: 180 - 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 500M24A 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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