

LLDPE 500M24A

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 Polymerisation Technology.

500M24A is a natural coloured polymer with narrow molecular weight distribution, excellent processability and flow properties.

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

Typical Properties

S.No.	Property	Test Method	Unit	Value
General Properties				
1	Density	ASTM D 1505	gm/cm ³	0.924
2	Melt Flow Index	ASTM D 1238	gm/10min	50
Mechanical Properties				
3	Tensile Yield Strength	ASTM D 638	Mpa	12
5	Elongation at Break	ASTM D 638	%	600
6	Flexural modulus	ASTM D 790	Mpa	300
7	ESCR (F50)	ASTM D 1693/B	hr	<10
Thermal Properties				
8	Vicat Softening Point	ASTM D 1525	°C	98

* Typical properties are tested on injection molded specimen.

Processing Guidelines

Processing Temperature (°C): 180 - 215

Regulatory Requirements

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 no exceed 50°C. Non - compliance to these precautionary measures can lead to degradation.

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