



# Luban DGDZ-6097

## High Density Polyethylene

### Description

Luban DGDZ-6097 is a high molecular weight, high-density polyethylene copolymer that has been designed specifically for tubular film extrusion. Its broad molecular weight distribution and density successfully combine to give excellent performance at high extrusion rates with high film strength and rigidity. The grade is recommended for high strength grocery sacks, shopping bags and notion and millinery bags. The excellent drawdown characteristic of this product permits production of high-quality thin films for multi-wall sack liners and replacement for thin paper products. The combination of strength and drawdown makes this resin ideal for downgauging in many applications. The grade is compatible with color concentrates, thus permitting the production of a variety of colored films that serve as protective and attractive decorative wraps.

Main Characteristics:

- Hexene High Density Resin
- High film strength
- Excellent drawdown

### Application

High strength grocery sacks, shopping bags and notion and millinery bags

### Properties (Typical Values)

Property	Unit	Test method	Value
Melt Index (190°C/2.16 kg)	g/10 min	ASTM D1238	0.05
Melt Index (190°C/21.6 kg)	g/10 min	ASTM D1238	10.5
Density	g /cm <sup>3</sup>	ASTM D792	0.948
Flexural Modulus - 1% Secant	MPa	ASTM D790*	1060
Tensile stress at yield (MD/TD)	MPa	ASTM D638*	32/28
Tensile stress at break (MD/TD)	MPa	ASTM D638*	58/60
Tensile strain at break (MD/TD)	%	ASTM D638*	280/390
Dart Drop Impact (12.7 µm)	g	ASTM 1709A*	139
Vicat Softening Temperature	°C	ASTM D1525	123
Melting Temperature (DSC)	°C	ASTM D3418	129

\*Tested on Blown film fabricated at: Frost Line Height: 1080 mm, Blow-Up Ratio: 4:1

**Note:** These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.



## Luban DGDZ-6097 High Density Polyethylene

### Storage and Handling

Luban DGDZ-6097 should be stored in well ventilate area during handling or processing of to prevent accumulation of dust and fumes. Avoid contact with strong oxidizers, excessive heat, sparks or open flame as this could well speed up alteration and consequently loss of quality of the material in which could lead to unforeseen dangers. The bags must be protected from direct sunlight and should be stored in shaded and completely dry area for good processing.

### Safety

Luban DGDZ-6097 is not classified as dangerous preparation. For further information about safety in handling and processing please refer to the Safety Data Sheet.

### Food Contact

Luban DGDZ-6097 meets the requirements of the U.S. Food and Drug Administration (FDA) as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact. For additional information on approved conditions of use for food contact applications, please refer to the "Product Stewardship Declaration".

### Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

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#### Disclaimer:

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