

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/cm³	ASTM D792	0.948
Flexural Modulus - 1% Secant	MPa	ASTM D7901	1060
Tensile stress at yield (MD/TD)	MPa	ASTM D882²	32/28
Tensile stress at break (MD/TD)	MPa	ASTM D882²	58/60
Tensile strain at break (MD/TD)	%	ASTM D882²	280/390
Dart Drop Impact (12.7 μm)	g	ASTM 1709A²	139
Vicat Softening Temperature	°C	ASTM D1525	123
Melting Temperature (DSC)	°C	ASTM D3418	129

¹Molded and tested in accordance with ASTM D4976

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

²Tested on Blown film fabricated at: Frost Line Height: 1080 mm, Blow-Up Ratio: 4:1



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Storage and Handling

Luban DGDZ-6097 must be protected from direct sunlight and should be stored in a shaded and completely dry area. During handling and processing, the material should be kept in a well-ventilated area to prevent the accumulation of dust and fumes. Contact with strong oxidizers, excessive heat, sparks or open flame should be avoided as this could initiate the degradation process and consequently impact the quality of the material.

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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