Manufacturer website: https://oq.com/en/

Luban HD-F5212

(Legacy name: Luban DGDX-6095)

High Density Polyethylene

Description

Luban HD-F5212 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 multiwall sack liners and replacements 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:

- Butene High Density Resin
- High film strength and stiffness
- 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	0.952
Flexural Modulus - 1% Secant	MPa	ASTM D790[1]	1160
Tensile stress at yield (MD/TD)	MPa	ASTM D882[2]	33/27
Tensile stress at break (MD/TD)	MPa	ASTM D882[2]	47/63
Tensile strain at break (MD/TD)	%	ASTM D882[2]	180/390
Dart Drop Impact (12.7 µm)	g	ASTM 1709A[2]	1117
Vicat Softening Temperature	°C	ASTM D1525	125
Melting Temperature (DSC)	°C	ASTM D3418	130

[1]Molded and tested in accordance with ASTM D4976

[2]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.

OQ head office
PO Box 281, PC 118
Muscat Grand Mall
Muscat, Sultanate of Oman
www.oq.com

أوكيو المكتب الرئيسي
صندوق بريد ٢٨١، الرمز البريدي ١١٨
مسقط جراند مول
سلطنة عمان، مسقط
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Storage and Handling

Luban HD-F5212 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 HD-F5212 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 HD-F5212 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.

Updated: Aug. 2025

Disclaimer:
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