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

Luban HP4128N
Polypropylene Homopolymer

Description

Luban polypropylene is manufactured using Novolen vertical stirred Gas-phase polymerization process. Luban HP4128N is a homopolymer polypropylene with superior slip and anti-blocking properties.

Application

Tubular quench (TQPP) and Cast film, flexible packaging including textiles over raps, garment bags, snack food packaging and straws.

Properties (Typical Values)

Property	Units	Test method	Value
Melt flow rate (230°C/2.16 kg)	g/10 min	ASTM D1238	10.5
Density	g /cm³	ASTM D792	0.90
Flexural Modulus (1% Secant)	MPa	ASTM D790	1450
Tensile Stress @ Yield	MPa	ASTM D638	35
Elongation @ Yield	%	ASTM D638	7
Tensile Stress @ Break	%	ASTM D638	23
Elongation @ Break (+23°C)	kJ/m²	ASTM D638	>200
Notched Izod Impact Strength @23°C	kJ/m²	ASTM D256	37
Vicat Softening Temperature (10N)	°C	ASTM D1525	155
Heat Deflection Temperature (0.45 MPa)	°C	ASTM D648	100

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

Processing Guidlines

The Typical Processing Conditions for Luban HP4128N are:

L/D ratio	24.1 – 30.1
Compression ratio	3.1 – 4.1
Melt Temperature	200 – 250 ° C
Pellets Drying	Not essential but helps in insuring consistent feed to extruder
Regrind Ratio	0 to 70% depending upon the end-product quality of regrind and screw configuration

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Note: Processing parameters should only be used as guidelines. The above properties values are not to be construed as specifications.

Storage and Handling

Luban HP4128N 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 HP4128N 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 HP4128N 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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