

PRODUCT DATA SHEET



LL4212S

LINEAR LOW-DENSITY POLYETHYLENE

Product Description

LL4212S is a linear low-density polyethylene (LLDPE) copolymer containing butene (C_4H_8) as the comonomer. It contains standard stabilization, anti-block and slip additive package. This grade is suitable for production of blown film extrusion process for light and medium duty applications. It can be used either neat or blends with others polyolefin e.g. LDPE, mLLDPE, HDPE.

Characteristics

- Contain anti-blocking & slip additive
- High drawdown capability
- Good optical properties
- Low gels content
- Easy processing
- Good mechanical properties with low blocking force and high slip

Applications

- General purpose film.
- Light and medium duty packaging.
- Food grade packaging.

Properties

Typical Properties	Test Method	Units	Typical Value
Physical			
Melt Flow Rate @ 2.16 kg	ISO 1133	g/10min	2.0
Density	ISO 1183	g/cm ³	0.920
Mechanical			
Tensile Strength @ Yield			
MD	ISO 527-3	MPa	10
TD	ISO 527-3	MPa	11
Elongation @ Break			
MD	ISO 527-3	%	800
TD	ISO 527-3	%	900
Dart Impact	ASTM D1709	g	120
Coefficient of friction (COF)	ASTM D1894	-	0.11
Thermal			
Melting temperature	ISO 3146 Method C	°C	121
Optical			
Haze	ASTM D1003	%	17
Gloss (45°)	ASTM D2457		45

Note: The above are typical data representing the product; not to be construed as analysis certificate or specifications. User should confirm results by their own tests. Film properties are measured on 38 µm film extruded at 2:1 blow-up ratio (BUR).

Typical Processing Conditions

LL4212S can be processed on most standard film conversion equipment designed for LLDPE. Optimization may be required depending on the exact end use requirement. Melt temperatures in the range 170°C – 210°C for blown film extrusion and 220°C – 260°C for cast film extrusion are typically used.

Regulatory Information

Details of information will be provided in a relevant declaration letter upon request.

Processing and Handling

LL4212S should be stored in a dry, under shaded and ventilated environment at a temperature below 50°C. Prolong of improper storage can result in deterioration of product properties.

Health and Safety

This product is not classified as a dangerous preparation. Before using this product, customer is advised to consult PRefChem's Safety Data Sheet (SDS) to understand the precautions in various aspect of safety, recovery and disposal of the product.

For More Information

Please contact:

Pengerang Petrochemical Company Sdn. Bhd. (201501003532 (1128864-H))

First Floor, Administration Block A2, Pengerang Integrated Complex Management Office (PICMO), 81600 Pengerang, Johor. Website: www.prefchem.com

Disclaimer: Information in this document is accurate to the best of our knowledge at the date of publication. The information may change as a result of production and testing upon production. This product data sheet is given in a good faith without any express or implied representation of the end usage of the products. It is expected that user(s) throughout the value chain may use this product in combination with products of other manufacturer(s), henceforth PRefChem accepts no responsibility or liability for results obtained by the application of this information or the safety and suitability of these products, either alone or in combination with other products. Therefore they are advised to make their own tests at their own costs to determine the safety and suitability of each such product combination for their own purposes. Unless otherwise agreed in writing, PRefChem sells these products without warranty, and user(s) throughout the value chain assume all responsibility and liability including associated third party claims for loss or damage arising from the handling and use of products, whether used alone or in combination with other products.

Date: 18 Nov 2021

Reference number: PREFCHEM PPC PDS/LL4212S/A001/2021