شرکت پلیمر آریا ساسول(سهامی خاص)
ARYA SASOL POLYMER COMPANY

Product Data Sheet

ASPC LFI2125A

PRODUCT DESCRIPTION:

LFI2125A is a low density polyethylene, with a high level of anti-block and slip agent (Erucamide). This grade offers good optical properties, low energy consumption during processing, adequate COF level and excellent draw down.

APPLICATIONS:

LFI2125A is recommended for blown film extrusion. This product is suitable for manufacture of general purpose LDPE film packaging for food and industrial goods and general lamination films. This grade is especially suitable when ultimate down gauging is required.

Typical Data

Properties	Value (1)	unit	Test method
Physical Properties			
MFI (190 ^{0}C /2 .16 Kg)	2.5	dg/min	ISO 1133
Density	921	Kg/m3	ISO 1183 (A)
Mechanical properties (2)			
Impact strength	23	KJ/m	ISO 7765-2
Tear strength (TD)	25	KN/m	ISO 6383-2
Tear Strength (MD)	70	KN/m	ISO 6383-2
Yield stress (TD)	11	MPa	ISO 527-1/3
Yield stress (MD)	13	MPa	ISO 527-1/3
Tensile Stress at break (TD)	19	MPa	ISO 527-1/3
Tensile Stress at break (MD)	30	MPa	ISO 527-1/3
Strain at Break (TD)	>500	%	ISO 527-1/3
Strain at Break (MD)	>100	%	ISO 527-1/3
Modulus of Elasticity (TD)	180	MPa	ISO 527-1/3
Modulus of Elasticity (MD)	190	MPa	ISO 527-1/3
Coefficient of friction	0.2		ASTM D 1894
Blocking	<5	g	SABTEC method
Re-blocking	0	g	SABTEC method
Optical properties (2)			
Haze	9	%	ASTM D 1003A
Gloss(45^o)	60	%	ASTM D 2457
Clarity	30	mV	
Additive: Antioxidant,, Slip agent, Anti blocking agent			

Notes:

(1) Typical Values: not to be construed as specifications limits.

(2) Properties are based on 25 µm blown film produced at a melt temperature of 165°C and 3 BUR using 100% LFI2125A.

General Information

LFI2125A has been manufactured using SABTEC licensed technology.

Processing Conditions:

Extruder temperature profile: 160-180°C
Frost line height: 5-7 times die diameter.
Blow Up Ratio: 2-3
Recommended film thickness: 20 to 50 µm.
Please note that, these processing conditions are recommended by producer only for 100% LFI2125A resin (not in the case of blending with any other compatible material), but because of the many particular factors which are outside our knowledge and control, and may affect the use of product, no warranty is given.

Packaging

Supplied in pellet form and can be packaged in 25kg Bags, one ton semi bulk or 17 tons bulk containers.

Food Packaging

The above-mentioned material meets the relevant requirements as laid down in:

- Regulation 174/2015 (amending Commission Regulation (EU) No. 10/2011)
- European Pharmacopoeia, paragraph 3.1.5.
- Metals test, standard 71-3
- Halogens, IEC 61249-2-21
- Heavy metals, EC Directive 94/62/EC
- RoHS, 2011/65/EU and 2002/96/EC
- Phthalates, Directive 2005/84/EC

Pharmaceutical Application

The above-mentioned grade meets the requirements of the European pharmacopeia version 6 sections 3.1.5 for pharmaceutical application.

Conveying

Conveying equipment should be designed to prevent accumulation of fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used:

1. Be equipped with adequate filters.
2. Is operated and maintained in such a manner to ensure no leaks develop.
3. That adequate grounding exists at all times.

We further recommend that good housekeeping will practiced throughout the facility.

Storage

All resins should be protected from direct sunlight and/or heat during storage. The storage location should also be dry, dust free and the ambient temperature should not exceed 50°C. It is also advisable to process polyethylene resins (in pelletized or powder from) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality. ASPC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is also advisable to process polyethylene resins (in pelletized or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

Handling

Minimal protection to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapors.

Combustibility

Polyethylene resins will burn when supplied adequate heat and oxygen. They should be handled and stored away from contact with direct flames and/or other ignition sources .in burning; polyethylene resins contribute high heat and may generate a dense black smoke. Fires can be extinguished by conventional means with water and mist preferred. In enclosed areas, fire fighters should be provided with self-contained breathing apparatus.

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Note: *this information is based on our current knowledge and experience .in view of many factors that may affect processing and application, this data does not relive processors from the responsibility of carrying out their own tests and experiments, neither does it imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.*

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