



LOW DENSITY POLYETHYLENE GRADE 11503-070

Film extrusion

APPLICATION

Grade 11503-070 is intended for food contact, for manufacture of toys and articles approved for packing and sealing of medicines. To be used for covering the articles allowed for food contact, for lamination by extrusion of such materials as paper, aluminium foil, cardboard etc. To be used as well for casting of small-sized articles (covers, caps, toys).

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.9180±0.001
2.	Melt flow index ((nominal value) with a tolerance), %, g/10 min	7.0±15
3.	Melt flow index spread within a batch, %, maximum	±5
4.	Number of inclusions, pieces, maximum	2
5.	Tensile yield strength, MPa, minimum	9.3
6.	Rupture strength, MPa, minimum	9.8
7.	Elongation at break, %, minimum	450

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

Information contained herein is provided to the best of our knowledge and is considered true on the revision date. This specification does not release a customer from obligation to check the product as to suitability thereof for the intended application. A producer shall not be liable for any loss and damage that might occur due to use of this information.



LOW DENSITY POLYETHYLENE GRADE LA2175

Extrusion coating and lamination

APPLICATION

Grade LA2175 is intended for national economy needs, for manufacture of general purpose films, bags and packages, thin films and film products, shrinkable films, films for food contact (including air-tight packing), for high-speed lamination by extrusion of such materials as paper, aluminium foil, cardboard etc. To be used as well for casting of small-sized articles (covers, caps, toys) and articles approved for packing and sealing of medicines.

TECHNICAL CHARACTERISTICS TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.918-0.923
2.	Melt flow index ((nominal value) with a tolerance), %, g/10 min	6.5±8.5
3.	Melt flow index spread within a batch, %, maximum	±5
4.	Number of inclusions, pieces, maximum	2
5.	Tensile yield strength, MPa, minimum	8.0
6.	Rupture strength, MPa, minimum	9.0
7.	Elongation at break, %, minimum	400
8.	Dynamic modulus of elasticity, Pa	95-110
9.	Zero-shear rate viscosity, Pa.s	3500-4500
10.	Mass fraction of extractable substances, %, maximum	0.30

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 10803-020

Film extrusion ***Injection molding***

APPLICATION

Grade 10803-020 is intended for manufacture of films and film products for general purpose (industrial films for greenhouse covering and other agricultural needs), films for food contact (including air-tight packing), bags, packages; allowed for food contact, for manufacture of toys and articles approved for packing and sealing of medicines.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.9185±0.0015
2.	Melt flow index ((nominal value) with a tolerance), %, g/10 min	2.0±10
3.	Melt flow index spread within a batch, %, maximum	±5
4.	Number of inclusions, pieces, maximum	2
5.	Stress cracking resistance, hours, minimum	2
6.	Tensile yield strength, MPa, minimum	9.3
7.	Rupture strength, MPa, minimum	12.2
8.	Elongation at break, %, minimum	550

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 15313-003

Film extrusion

APPLICATION

Grade 15313-003 is intended for manufacture of thin films and film products, shrinkable films, films for food contact (including air-tight packing), general purpose films, bags and packages. To be used for covering the articles allowed for food contact, for manufacture of pipes and fittings allowed for cold domestic water supply.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.9205±0,0015
2.	Melt flow index((nominal value) with a tolerance), %, g/10 min	0.3±30
3.	Melt flow index spread within a batch, %, maximum	±6
4.	Number of inclusions, pieces, maximum	2
5.	Stress cracking resistance, hours, minimum	500
6.	Tensile yield strength, MPa, minimum	9.8
7.	Rupture strength, MPa, minimum	13.7
8.	Elongation at break, %, minimum	600

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 15813-020

Film extrusion ***Injection molding***

APPLICATION

Grade 15813-020 is intended for manufacture of products, allowed for food contact, for manufacture of toys. To be used for manufacture of medical accessories, assemblies and parts of medical equipment, devices and tools, allowed for body tissue contact including for internal prosthetics.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.9190±0.002
2.	Melt flow index ((nominal value) with a tolerance), %, g/10 min	2.0±25
3.	Melt flow index spread within a batch, %, maximum	±6
4.	Number of inclusions, pieces, maximum	2
5.	Tensile yield strength, MPa, minimum	9.3
6.	Rupture strength, MPa, minimum	11.3
7.	Elongation at break, %, minimum	600
8.	Mass fraction of extractable substances, %, maximum	0.4

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE FA2004

Film extrusion ***Cable extrusion***

APPLICATION

Grade FA2004 is intended for manufacture of single-layer and multi-layer packing films; shrinkable films; films of various application 50 µm and more; protective covering with long service life and high cracking resistance; for usage in compositions in order to increase rigidity and cracking resistance of end products; for manufacture of products of various application in contact with food.

TECHNICAL CHARACTERISTICS TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.917÷0.922
2.	Melt flow index, g/10 min, within the limits	0.25÷0.49
3.	Melt flow index spread within a batch, %, maximum	±6
4.	Number of inclusions, pieces, maximum	2
5.	Stress cracking resistance, hours, minimum	500
6.	Tensile yield strength, MPa, minimum	9.5
7.	Rupture strength, MPa, minimum	13.0
8.	Elongation at break, %, minimum	500

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE FA2007

Film extrusion ***Injection molding***

APPLICATION

Low-density polyethylene **Grade FA2007** is designated for manufacture of film products, for processing by injection molding and extrusion.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.917÷0.922
2.	Melt Flow Index, g/10 min, (at 190 °C and at load of 2.16 kg)	0.60÷0.80
3.	Melt Flow Index Range within the Batch, %, maximum	± 10
4.	Tensile Strength at Yield, MPa, minimum	9.0
5.	Tensile Stress at Break, MPa, minimum	12.0
6.	Elongation at Break, %, minimum	500
7.	Mass fraction of extractable substances, %, maximum	0.8
8.	Number of impurities, pcs, maximum	5

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 10204-003

Film extrusion ***Cable extrusion***

APPLICATION

Grade 10204-003 is designated for manufacture of film products, for processing by injection molding and extrusion, protective covering with long service life and high cracking resistance; for usage in compositions in order to increase rigidity and cracking resistance of end products; for manufacture of products of various application in contact with food.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.9230 ± 0.001
2.	Melt flow index ((nominal value) with a tolerance), %, g/10 min	0.3±15
3.	Melt flow index spread within a batch, %, maximum	±5
4.	Number of inclusions, pieces, maximum	2
5.	Stress cracking resistance, hours, minimum	500
6.	Tensile yield strength, MPa, minimum	11.3
7.	Rupture strength, MPa, minimum	14.7
8.	Elongation at break, %, minimum	600

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 153-02K

Cable extrusion

APPLICATION

Polyethylene composition **Grade 153-02K** is intended for application of insulation, sheaths and protective covering to wires and cables by means of extrusion.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.919÷0.922
2.	Melt flow index, g/10 min, at load of 2.16 kgf within the limits	0.21÷0.39
3.	Melt flow index spread within a batch, %, maximum	±8
4.	Thermo-oxidative stability, hour, minimum	8
5.	Photo-oxidative stability, hour, minimum	500
6.	Stress cracking resistance, hours, minimum	1000
7.	Tensile yield strength, MPa, minimum	9.8
8.	Rupture strength, MPa, minimum	13.7
9.	Elongation at break, %, minimum	600

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 153-10K

Cable extrusion

APPLICATION

Polyethylene composition **Grade 153-10K** is intended for application of insulation, sheaths and protective covering to wires and cables by means of extrusion.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	Not specified
2.	Melt flow index, g/10 min, at load of 2.16 kgf within the limits	0.21÷0.39
3.	Melt flow index spread within a batch, %, maximum	±8
4.	Thermo-oxidative stability, hour, minimum	8
5.	Photo-oxidative stability, hour, minimum	500
6.	Stress cracking resistance, hours, minimum	1000
7.	Tensile yield strength, MPa, minimum	9.8
8.	Rupture strength, MPa, minimum	13.7
9.	Elongation at break, %, minimum	600

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE CA0004

Cable extrusion

APPLICATION

Grade CA0004 is intended for manufacture of cable products with improved performance properties due to processing additive and enhanced stabilization system for protection against thermal oxidation and photo-oxidation; for application of sheath, insulation and protective covering to cables by means of extrusion. Featuring increased cracking resistance.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Melt Flow Index, g/10 min, (at 190 °C and at load of 2.16 kg)	0.25÷0.50
2.	Melt flow index spread within a batch, %, maximum	± 12
3.	Tensile yield strength, MPa, minimum	9.0
4.	Rupture strength, MPa, minimum	12.0
5.	Elongation at break, %, minimum	500
6.	Mass fraction of extractable substances, %, maximum	0.9
7.	Stress cracking resistance, hours, minimum	500
8.	Thermal oxidation resistance, hours, minimum	8
9.	Photo-oxidation resistance, hours, minimum	500

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 11503-070

Film extrusion

APPLICATION

Grade 11503-070 is intended for food contact, for manufacture of toys and articles approved for packing and sealing of medicines. To be used for covering the articles allowed for food contact, for lamination by extrusion of such materials as paper, aluminium foil, cardboard etc. To be used as well for casting of small-sized articles (covers, caps, toys).

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.9180±0.001
2.	Melt flow index ((nominal value) with a tolerance), %, g/10 min	7.0±15
3.	Melt flow index spread within a batch, %, maximum	±5
4.	Number of inclusions, pieces, maximum	2
5.	Tensile yield strength, MPa, minimum	9.3
6.	Rupture strength, MPa, minimum	9.8
7.	Elongation at break, %, minimum	450

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 10803-020

Film extrusion ***Injection molding***

APPLICATION

Grade 10803-020 is intended for manufacture of films and film products for general purpose (industrial films for greenhouse covering and other agricultural needs), films for food contact (including air-tight packing), bags, packages; allowed for food contact, for manufacture of toys and articles approved for packing and sealing of medicines.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.9185±0.0015
2.	Melt flow index ((nominal value) with a tolerance), %, g/10 min	2.0±10
3.	Melt flow index spread within a batch, %, maximum	±5
4.	Number of inclusions, pieces, maximum	2
5.	Stress cracking resistance, hours, minimum	2
6.	Tensile yield strength, MPa, minimum	9.3
7.	Rupture strength, MPa, minimum	12.2
8.	Elongation at break, %, minimum	550

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 15313-003

Film extrusion

APPLICATION

Grade 15313-003 is intended for manufacture of thin films and film products, shrinkable films, films for food contact (including air-tight packing), general purpose films, bags and packages. To be used for covering the articles allowed for food contact, for manufacture of pipes and fittings allowed for cold domestic water supply.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.9205±0,0015
2.	Melt flow index((nominal value) with a tolerance), %, g/10 min	0.3±30
3.	Melt flow index spread within a batch, %, maximum	±6
4.	Number of inclusions, pieces, maximum	2
5.	Stress cracking resistance, hours, minimum	500
6.	Tensile yield strength, MPa, minimum	9.8
7.	Rupture strength, MPa, minimum	13.7
8.	Elongation at break, %, minimum	600

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 15813-020

Film extrusion ***Injection molding***

APPLICATION

Grade 15813-020 is intended for manufacture of products, allowed for food contact, for manufacture of toys. To be used for manufacture of medical accessories, assemblies and parts of medical equipment, devices and tools, allowed for body tissue contact including for internal prosthetics.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.9190±0.002
2.	Melt flow index ((nominal value) with a tolerance), %, g/10 min	2.0±25
3.	Melt flow index spread within a batch, %, maximum	±6
4.	Number of inclusions, pieces, maximum	2
5.	Tensile yield strength, MPa, minimum	9.3
6.	Rupture strength, MPa, minimum	11.3
7.	Elongation at break, %, minimum	600
8.	Mass fraction of extractable substances, %, maximum	0.4

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE FA2007

Film extrusion ***Injection molding***

APPLICATION

Low-density polyethylene **Grade FA2007** is designated for manufacture of film products, for processing by injection molding and extrusion.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.917÷0.922
2.	Melt Flow Index, g/10 min, (at 190 °C and at load of 2.16 kg)	0.60÷0.80
3.	Melt Flow Index Range within the Batch, %, maximum	± 10
4.	Tensile Strength at Yield, MPa, minimum	9.0
5.	Tensile Stress at Break, MPa, minimum	12.0
6.	Elongation at Break, %, minimum	500
7.	Mass fraction of extractable substances, %, maximum	0.8
8.	Number of impurities, pcs, maximum	5

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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LOW DENSITY POLYETHYLENE GRADE 10204-003

Film extrusion ***Cable extrusion***

APPLICATION

Grade 10204-003 is designated for manufacture of film products, for processing by injection molding and extrusion, protective covering with long service life and high cracking resistance; for usage in compositions in order to increase rigidity and cracking resistance of end products; for manufacture of products of various application in contact with food.

TECHNICAL CHARACTERISTICS

	Parameter	Standard
1.	Density, g/cm ³	0.9230 ± 0.001
2.	Melt flow index ((nominal value) with a tolerance), %, g/10 min	0.3±15
3.	Melt flow index spread within a batch, %, maximum	±5
4.	Number of inclusions, pieces, maximum	2
5.	Stress cracking resistance, hours, minimum	500
6.	Tensile yield strength, MPa, minimum	11.3
7.	Rupture strength, MPa, minimum	14.7
8.	Elongation at break, %, minimum	600

Supply form: Pellets

Packing: Product is packed in polyethylene bags (one bag net weight 25.00±0.25kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.

Transportation: by all modes of transport.

Storage: polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80%.

Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

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Name:

Product Data sheet -Low Density polyethylene
LFI2119

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Typical Data

Properties	Value ⁽¹⁾	unit	Test method
Physical Properties			
MFI (190 °C / 2 .16 Kg)	1.9	dg/min	ISO 1133
Density	921	Kg/m ³	ISO 1183 (A)
Mechanical properties ⁽²⁾			
Impact strength	26	KJ/m	ASTM D 4272
Tear strength (TD)	25	KN/m	ISO 6383-2
Tear Strength (MD)	60	KN/m	ISO 6383-2
Yield stress (TD)	11	MPa	ISO 527
Yield stress (MD)	13	MPa	ISO 527
Tensile stress at break (TD)	20	MPa	ISO 527
Tensile stress at break (MD)	35	MPa	ISO 527
Strain at Break (TD)	>500	%	ISO 527
Strain at Break (MD)	>150	%	ISO 527
Modulus of Elasticity (TD)	200	MPa	ISO 527
Modulus of Elasticity (MD)	190	MPa	ISO 527
Coefficient of friction	>1		ASTM D 1894
Blocking	20	g	SABTEC method
Re-blocking	100	g	SABTEC method
Optical properties ⁽²⁾			
Haze	9	%	ASTM D 1003A
Gloss (45°)	55	%	ASTM D 2457
Clarity	26	mV	
<i>Additive : Antioxidant</i>			

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 170°C and 3 BUR using 100% LFI2119.

Product Description

LFI2119 is a low density polyethylene, with excellent optical properties. This grade offers a high output and excellent draw down and specially designed for general purpose thin films.

Typical Application

LFI2119 is recommended for blown film extrusion. This product is suitable for manufacture of general purpose LDPE film packaging and general lamination films.

General Information

Licensor: LFI2119 has been manufactured using SABTEC licensed technology.

Producer: Arya Sasol Polymer Company

Processing Conditions:

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 relieve 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.



Doc
Name:

Product Data sheet -Low Density polyethylene
LFI2119

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Extruder temperature profile: 160-185°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% LFI2119 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 grade meets the relevant requirements of plastics directive 2002/72/EC (06-08-2002) and its amendments till directive 2008/39EC relating to plastic materials and articles intended to come into contact with foodstuffs.

Pharmaceutical Application

The above mentioned grade meets the requirements of the European pharmacopeia version 6 section 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 form) 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.

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 relieve 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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Typical Data

Properties	Value ⁽¹⁾	unit	Test method
Physical Properties			
MFI(190 °C /2 .16 Kg)	0.3	Dg/min	ISO 1133
Density	921	Kg/m ³	ISO 1183 (A)
Mechanical properties ⁽²⁾			
Impact strength	31	KJ/m	ASTM D 4272
Tear strength (TD)	45	KN/m	ISO 6383-2
Tear Strength (MD)	20	KN/m	ISO 6383-2
Yield stress (TD)	10	MPa	ISO 527
Yield stress (MD)	11	MPa	ISO 527
Tensile Stress at break (TD)	24	MPa	ISO 527
Tensile Stress at break (MD)	22	MPa	ISO 527
Strain at Break (TD)	>500	%	ISO 527
Strain at Break (MD)	>350	%	ISO 527
Modulus of Elasticity (TD)	150	MPa	ISO 527
Modulus of Elasticity (MD)	140	MPa	ISO 527
Coefficient of friction	0.7		ASTM D 1894
Blocking	<5	g	SABTEC method
Re-blocking	20	g	SABTEC method
Optical properties ⁽²⁾			
Haze	12	%	ASTM D 1003A
Gloss (45°)	55	%	ASTM D 2457
Clarity	50	mV	SABTEC method
<i>Additive :Antioxidant</i>			

Notes:

- (1) Typical Values: not to be construed as specifications limits.
- (2) Properties are based on 120 µm blown film produced at a melt temperature of 200°C and 3 BUR using 100% LFI2130.

Product Description

LFI2130 is a low density polyethylene, suitable for producing heavy-duty films and contains no slip and anti-block additives. It gives outstanding toughness, draw down ability and very good biaxial shrink properties.

Typical Application

LFI2130 is recommended for blown film extrusion. This product is suitable for manufacture of heavy duty LDPE film packaging for application like shrink hoods, industrial sacks, Carrier bags and liners.

General Information

Licenser: LFI2130 has been manufactured using SABTEC licensed technology.
 Producer: Arya Sasol Polymer Company

Processing Conditions

Extruder temperature profile: 185-200°C
 Frost line height: 5-7 times die diameter.

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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Blow Up Ratio: 2-4

Recommended film thickness: 45 to 150 μm

Please note that, these processing conditions are recommended by producer only for 100% LFI2130 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 grade meets the relevant requirements of plastics directive 2002/72/EC (06-08-2002) and its amendments till directive 2008/39EC relating to plastic materials and articles intended to come into contact with foodstuffs.

Pharmaceutical Application

The above mentioned grade meets the requirements of the European pharmacopeia version 6 section 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 form) 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 is required. 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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