



ASPC

Process OptimizationDoc
Name:

Product Data sheet - LDPE- Low Density Polyethylene

LTL 2185/47

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Doc No.

TEC-PRO-PDS-006

Rev: 5

Typical Data**Supplier:**Arya Sasol Polymer Company
Pars special Economic Energy zone**Address:**Tehran office: 7th Floor ,No.2551,
Kian Tower, (on the corner of Shahid
Naseri), Valiasr AVE, Tehran- IranPostal code: 1968643111
P.O.Box: 15875-8393
Tel: (+9821) 88645201-7 85920000
Fax: (+9821) 88645209-10

دفتر تهران:

خیابان ولی عصر بالاتر از ظفر نبش کوچه شهید
ناصری- شماره ۲۵۵۱- برج کیان طبقه هفتم
صندوق پستی: ۱۵۸۷۵-۸۳۹۳
کد پستی: ۱۹۶۸۶۴۳۱۱۱
تلفن: (+۹۸۲۱) ۸۸۶۴۵۲۰۱-۷-۸۵۹۲۰۰۰۰
نمابر: (+۹۸۲۱) ۸۸۶۴۵۲۰۹-۱۰**Complex:**Pars Special Economic Energy Zone,
Assalouyeh-Iran
Postal code: 75118 – 11365
P.O.Box : 75118 – 369
Tel: +98 7727264142- +98 21 85922876-
78
Fax: +98 7727264177

مجتمع:

استان بوشهر عسلویه منطقه ویژه اقتصادی پارس
کد پستی: ۷۵۱۱۸ – ۱۱۳۶۵
صندوق پستی: ۷۵۱۱۸ – ۳۶
تلفن: +۹۸ ۷۷۲۷۲۶۴۱۴۲- +۹۸۲۱۸۵۹۲۲۸۷۷۸
نمابر: +۹۸ ۷۷۲۷۲۶۴۱۷۷www. Aryasol.com
Email: sop@aspcpe.com

Properties	Value	unit	Test method
Physical Properties			
MFR (190 °C /2 .16 Kg)	0.85	dg/min	ISO 1133
Density	921	Kg/m3	ISO 1183 (A)
Mechanical properties			
Impact strength	30	KJ/m	ASTM D 4272
Tear strength (TD)	30	KN/M	ISO 6383-2
Tear Strength (MD)	40	KN/m	ISO 6383-2
Yield stress (TD)	11	MPa	ISO 527
Yield stress (MD)	12	MPa	ISO 527
Tensile Stress at break (TD)	21	MPa	ISO 527
Tensile Stress at break (MD)	24	MPa	ISO 527
Strain at Break (TD)	>500	%	ISO 527
Strain at Break (MD)	>200	%	ISO 527
Modulus of Elasticity (TD)	170	MPa	ISO 527
Modulus of Elasticity (MD)	160	MPa	ISO 527
Coefficient of friction	0.1		ASTM D 1894
Blocking	10	g	SABTEC method
Re-blocking	30	g	SABTEC method
Optical properties			
Haze	11	%	ASTM D 1003A
Gloss (45°)	55	%	ASTM D 2457
Clarity	37	mV	SABTEC method
Additive ; Antioxidant ,Slip agent, Anti blocking agent			

Film properties have been measured at 45µm with a BUR of 3.

Application


LTL 2185/47 can be used for shrink packaging applications.

General information

LTL 2185/47 has been manufactured using SABTEC licensed technology.

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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Processing

LTM2185/47 is a grade with a good toughness and good bi-axial shrink properties .the material contains a high anti-block level and medium slip agent (Erucamide). The grade has low energy consumption and has a good draw down ability.

Packaging

Supplied in pellet form and can be packaged in 25kg bags, 1 ton semi bulk or 17 ton bulk.

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 sections 3.1.5 for pharmaceutical application.

Conveying

Conveying equipment should be designed 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 recommended that good housekeeping will practiced throughout the facility

Storage

As ultraviolet light may cause a change in the material, 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 OC. 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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