

ASPC LIM1922

PRODUCT DESCRIPTION:

LIM1922 is a low density polyethylene, offering a unique combination of consistent process ability, flexibility and toughness. This grade developed for applications that require a good balance between flow properties and mechanical properties.

Typical APPLICATIONS:

LIM1922 is recommended for injection molding process. This product is injected for producing flexible injection molded articles such as toys, household articles, caps, lids and as base resin for master batches.

Typical Data

Properties	Value ⁽¹⁾	unit	Test method
Polymer Properties			
MFI (190 °C /2 .16 Kg)	22	dg/min	ISO 1133
MFI (190 °C /5 Kg)	75	dg/min	ISO 1133
MVR (190 °C /2 .16 Kg)	29	ml/10min	ISO 1133
MVR (190 °C /5 Kg)	98	ml/10min	ISO 1133
Density	919	Kg/m ³	ISO 1183 (A)
Thermal Properties⁽²⁾			
Heat deflection temperature at 0.45MPa (HDT/B)	39	°C	ISO 75
Vicat softening temperature at 10N (VST/A)	82	°C	ISO 306
Melting Point	105	°C	ASTM D 3418
Enthalpy change	104	J/g	ASTM D 3417
Mechanical properties⁽²⁾			
Stress at yield	8	MPa	ISO 527-1/2
Stress at break	7	MPa	ISO 527-1/2
Strain at break	400	%	ISO 527-1/2
Tensile modulus	175	MPa	ISO 527-1/2
Creep modulus (After 1 hour)	80	MPa	ISO 899-1
Creep modulus (After 1000 hour)	45	MPa	ISO 899-1
Notched Izod at +23°C	42	KJ/m ²	ISO 180 A
Notched Izod at -30 °C	5	KJ/m ²	ISO 180 A
Notched Tensile impact strength	86	KJ/m ²	ISO 8256/1B
Elongation at break	8.4	%	ISO 8256/1B
Maximum Tension	16	MPa	ISO 8256/1B
Hardness Shore D	45	-	ISO 868
Ball indentation test			
Applied load	49	N	ISO 2039-1
Ball indentation hardness	16	MPa	ISO 2039-1
ESCR	3	h	SABTEC Method
<i>Additive : Antioxidant</i>			

Notes:

- (1) Typical Values: not to be construed as specifications limits.
- (2) Properties are based on 45 µm blown film produced at a melt temperature of 190°C and 3 BUR using 100% LTM 2185/47.

General Information

LFI2185A has been manufactured using SABTEC licensed technology.

Processing Conditions:

Extruder temperature profile: 175-190°C

Frost line height: 5-7 times die diameter.

Blow Up Ratio: 2-4

Recommended film thickness: 45 to 100 µm.

Please note that, these processing conditions are recommended by producer only for 100% LFI2185A 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 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 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.

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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.*