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OKITEN[®] 222 A

Low Density Polyethylene

Material Description

OKITEN[®] 222 A is low density polyethylene, without slip agent, intended for extrusion of heavy duty blown film.

OKITEN[®] 222 A is characterized by excellent processing properties and thermal stability. Extruded film has very good balance of stiffness, mechanical and optical properties.

OKITEN[®] 222 A is extruded in temperature range from 175 °C to 200 °C.

Recommended film thickness: 0.050 mm to 0.200 mm.

Application

- Blown film for heavy duty bags
- Heat shrinkable film with intended for industrial bundling
- Film used in construction industry and agriculture
- Co-extrusion and mixing with other polyolefin grades

Property ^{1,2,3,4,5}	ISO Standard	Value	Unit
Density	1183	0.922	g/cm ³
Melt Flow Rate	1133	0.3	g/10 min
VICAT softening temperature	306/ A	96	°C
Tensile strength at yield	527/2	10.5	MPa
Tensile strength at break	527/2	18	MPa
Elongation at break	527/2	750	%
Hardness, Shore	868	45	Scale D
Friction coefficient ³ static/dynamic	8295	≥0.4	-
Tear resistance ^{4,3}	6383	110/74	N/mm
Gloss ^{4,3} / angle 20 ⁰	ASTM 2457	36	
Haze ^{4,3}	ASTM 1003	5	%
Tensile strength at break ⁴ MD/TD	527-3	23 / 21	MPa
Elongation at break MD ⁴ / TD	527-3	275/516	%
Shrink ^{3,4,5} - dimensional change on heating	11501	74/22	%

¹Typical values that do not represent specification limit values. ² Test samples obtained by direct press moulding

³ Films of 0.050 mm in thickness extruded on a industrial extruder under the following conditions: melt temp. = 190 – 200 °C; Die gap= 1,2 mm;

Blow up ratio=1:3; Frost line height= 110 mm; and inside cooling conditions = 24°C; Film velocity at the nip roll= 22 m/min

⁴ Values given are typical and only informative. The producer reserves the right to change these values at any time.

⁵ Temperature 140 °C, time 120 sec; MD=machine direction, TD=transverse direction

Additive	Slip agent	Antiblocking agent	Thermal stabilizer
	no	no	yes

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Storage and Handling

OKITEN® 222 A is packed in polyethylene bags of 25 kg stacked up on wooden pallets having total dimensions of 1700 x 1300 x 1100 mm and total mass of 1285 kg (1250 kg net). The pallets are covered and secured with heat shrinkable film. Transport by road tankers is also possible.

OKITEN® 222 A should not be exposed to direct sunlight, which can affect its properties. If stored in unfavourable climatic conditions (great temperature variations and high moisture content) moisture can condense in bags.

Physiological Properties

OKITEN® 222 A complies with the requirements of the European Directive 2004/19/EC (an amended edition 2002/72/EC), relating to plastic materials and articles intended to come into contact with foodstuffs. **OKITEN® 222 A** meets the requirements of the European Directive 94/62/EC of the European law on packaging material.

Material Safety Data Sheet is available on www.dioki.hr

Technical Service

Further information is available to **OKITEN® 222 A** end users at: Tel: ++ 385 1 2483 670; Fax: ++ 385 1 2404 383; E-mail: dioki@dioki.hr, DIOKI d.d., 10 000 Zagreb, Žitnjak bb, CROATIA

Sale

All information on the sale of DIOKI products can be obtained from DIOKI Commercial Department, Tel: ++385 1 2483 000; Fax: ++385 1 2407 362 or ++385 1 2404 975; E-mail: dioki@dioki.hr, DIOKI d.d., 10 000 Zagreb, Žitnjak bb, CROATIA