

# **PVDC from SolVin DIOFAN® 193 D** PVDC aqueous dispersion

Topcoat

## 1. Purpose

DIOFAN<sup>®</sup> 193 D is a PVDC latex recommended for coating on plastic films. It can also be used as a topcoat for rigid PVC foils and for the print overcoating.

#### 2. Product characteristics

Aqueous dispersion, solid content	g/kg	550
Density	kg/dm3	1.3
Emulsion	type	anionic
Minimum film forming temperature	°C	18
Foaming tendency, surface tension	mN/m	32
Acidic medium	рН	3
Dynamic viscosity at 20°C	mPa⋅s	10
Shelf life at 23°C	month	12

#### 3. Coating characteristics <sup>(1)</sup>

Oxygen transmission, 25°C 85% R.H.	cm³⋅µm/m²⋅d⋅b	54
Water vapor transmission, 38°C 90% R.H.	g∙µm/m²∙d	16
Heat Seal Threshold (0.4 N/cm) <sup>(2)</sup>	°C	111
Heat Seal Maximum Resistance <sup>(2)</sup>	N/cm	2.3
Dynamic coefficient of friction	-	0.21
Density of the coating	kg/dm <sup>3</sup>	1.65

(1) Coating on BOPP; coating weight : 2.7 g/m²; additive package : 20 g/kg wax + 3 g/kg silica (2) 20 PSI – 1s - 1 heated jaw

The values given in this data sheet are average values and cannot be considered as specifications.

## 4. Processing - Drying

DIOFAN<sup>®</sup> 193 D has a low surface tension. It can be processed with different coating techniques, including gravure roll and air knife coating systems. When coating plastic films, DIOFAN<sup>®</sup> 193 D should be formulated with wax and silica in order to improve the blocking and slip properties of the finished coating.

A good quality coating requires adequate drying, since higher temperatures will result in better barrier properties.

SolVin S.A. Rue de Ransbeek 310 B-1120 Brussels (Belgium) Tel. +32/2/264 28 90 Fax : +32/2/264 35 53 www.ixan-diofan.com







## DIOFAN<sup>®</sup> 193 D

### 5. Food and drug legislations

The monomers used for the production of DIOFAN<sup>®</sup> 193 D are listed in the European Directive 2002/72/CEE Annex II. Additives are listed in Annex III.

All the components are listed in the European Resolution AP2004 (1) (Surface coating intended to come into contact with foodstuffs).

 $\mathsf{DIOFAN}^{\$}$  193 D complies with U.S. FDA chapters 21 CFR 175.300, 175.320, 176.170 and 176.180.

The drug master file number for DIOFAN<sup>®</sup> 193 D is 8738.

SolVin will provide necessary certification upon request by its customers.

#### 6. ISO certification

The implemented management system for the production, internal transfer and delivery, design and development of DIOFAN vinylidene chloride copolymers (PVDC) produced in Tavaux has been assessed and found to meet the requirements of ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007.

The data and numerical results contained in this document are provided for the sake of general information of our customers and are given in good faith. The numerical data and tables of results show typical, average data based on an appropriate number of individual measurements made on the products. They should not be considered as specifications. Our responsibility does not cover misuse of our products. The information presented here should not be considered as a suggestion to use our products without taking into account existing patents, legal provisions or regulations, whether national or local.