



# PVDC from SolVin

## IXAN® PNE 613

### Soluble PVDC resin for coating

#### 1. Purpose

IXAN PNE 613 is a top coat for the coating of cellulosic or plastic films in a solvent mixture of tetrahydrofuran (THF) & toluene (TOL).

#### 2. Product characteristics <sup>(1)</sup>

Appearance		white powder
True solvent		THF
Bulk density	kg/dm <sup>3</sup>	0.5
Volatile content	%	≤ 0;8
Dynamic viscosity at 35°C	mPa.sec	
0 hour		37
24 hours		39
Turbidity at 35°C	µA	
0 hour		90
24 hours		76
Relative viscosity		1.25

(1) when required : solution in THF/TOL mixture 60/40; % of resin = 25.

#### 3. Coating characteristics <sup>(2)</sup>

Oxygen TR, 25°C - 85% RH	cm <sup>3</sup> .µm/m <sup>2</sup> .d.bar	40
Water Vapor TR, 38°C - 90%RH	g.µm/m <sup>2</sup> .d	17
Heat seal threshold (0.4 N/cm) <sup>(3)</sup>	°C	108
Heat seal maximum resistance <sup>(3)</sup>	N/cm	0.95
Crystallinity Index, 7 days at 23°C	-	1
Density of the coating	kg/dm <sup>3</sup>	1.65

(2) coating on PET; coating weight: 2.7 g/m<sup>2</sup>; additive package:20 g/kg wax + 1 g/kg behenic acid +1.5 g/kg silica

(3) 20 PSI – 1 sec – 1 heated jaw

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

#### 4. Delivery

Containers	kg	500
Bulk bags	kg	600

#### 5. Preparation of the solutions

IXAN PNE 613 is used in a 60/40 solvent mixture of THF/TOL, in which the resin is dissolved at a concentration of 150 to 200 g/l. To better facilitate the dissolution, the resin should be added under agitation to toluene preheated to 50°C, followed by the addition of the THF. The solution is then kept at 50°C for 30 minutes. A temperature of 35°C is recommended for the storage and coating of the solution.

To improve the surface properties of the coating, the IXAN PNE 613 solution should be formulated. As a guide line, the following additive package is suggested : Behenic acid (0.1g)/ wax (2g)/silica (0.15g) per 100g of resin. The additives should be introduced after the resin is completely dissolved in the solvent mixture.

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Reference	Revision index	Written by	Verified by	Approved by	Issued by	Date of application
CAT 412 0014	2	B.Ladent	B. Faye	Y. Vanderveken	SOLVIN R 412	15/03/2006



## IXAN<sup>®</sup> PNE 613

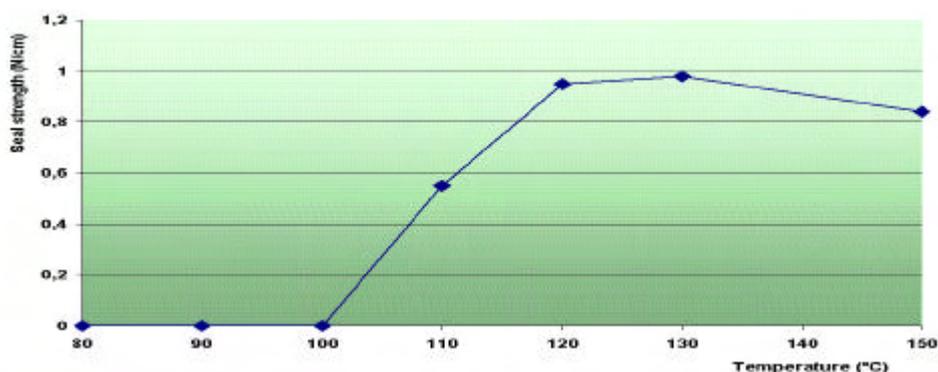
### 6. Processing - Drying

A good quality coating requires adequate drying in order to remove as much of the solvents as possible, and to form a film with optimum properties.

The coating machine must be designed to process solvent-based products.

### 7. Technical item

Seal strength versus temperature (20 PSI – 0.5 s)  
Coating on cellulosic film; coating weight 1.7g/m<sup>2</sup> on each side



### 8. Food legislations

The monomers used for the production of IXAN PNE 613 are listed in the European Directive 2002/72/CEE Enclosure II. Additives are listed in Enclosure III of this Directive.

All the components are listed in the European Resolution AP 2004(1) (Surface coating intended to come into contact with foodstuffs).

IXAN PNE 613 complies with U.S. FDA chapters 21 CFR 175.320, 177.1200 and 177.1630.

SolVin will provide necessary certification upon request by its customers.

### 9. ISO certification

The implemented management system for the production, internal transfer and delivery, design and development of IXAN 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.*

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