

PVDC from SolVin IXAN[®] PNE 288

Soluble PVDC resin for coating Super barrier grade

1. Purpose

IXAN PNE 288 is a PVDC resin for coating of cellulosic or plastic films (PET), soluble in a solvent mixture of tetrahydrofuran (THF) & toluene (TOL). This grade has very high impermeability to gases and moisture.

2. Product characteristics (1)

Appearance		white powder
True solvent		THF
Bulk density	kg/dm ³	0.5
Volatile content	%	≤ 0.8
Dynamic viscosity at 35°C		
0 hour	mPa.sec	30
24 hours		35
Transparency at 35°C	μA	
0 hour		65
Relative viscosity		1.22

(1) When required: solution in THF/TOL mixture 70/30; % of resin = 20.

3. Coating characteristics (2)

Oxygen TR, 25°C – 0% RH	cm ³ .µm/m ² .d.bar 12	
Water Vapor TR, 38°C - 90%RH	g.µm/m².d	10
Crystallinity Index	-	1.50
Density of the coating	kg/dm ³	1.65

(2) Coating on PET; treatment of 2 days at 40°C.

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

4. Delivery

For further information on available packaging and logistics solutions, please contact your local Account Manager or our Customer Care service (www.ixan-diofan.com).

5. Preparation of the solutions

IXAN PNE 288 is used in a solvent mixture of THF/TOL (for ex. 70/30 ratio) preheated to 50°C , in which the resin is dissolved at a concentration of 150 to 200 g/l. The solution is then kept at 50°C under stirring for minimum 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 288 solution can be formulated. The additives should be introduced after the resin is completely dissolved in the solvent mixture.

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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 the optimum properties.

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

7. Food legislations

The monomers used for the production of IXAN PNE 288 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 AP 2004 (1) (Surface coating intended to come into contact with foodstuffs).

IXAN PNE 288 complies with U.S. FDA chapters 21 CFR 175.320, 177.1630.

SolVin will provide necessary certification upon request by its customers.

8. 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.