PVDC from SolVin

IXAN® PV 910

Ready to use - Extrudable PVDC resin
High barrier grade

1. Purpose

IXAN PV 910 is a PVDC-preblend (2% ESO) for extrusion and coextrusion of films (heat shrinkable or not), and of thermoformable sheets. It is recommended for applications that require very good barrier.

2. Product characteristics

Appearance		Slightly off-white powder
Copolymer type		VDC/MA
Bulk density	kg/dm^3	0.9
Mean particle size	µm	200
Molecular weight by weight	g/mol	129,000

3. Polymer characteristics

Melt temperature	°C	155
Melt viscosity at 160°C; 100 s^{-1}	Pa.s	1500
Specific gravity	kg/dm^3	1.71
Glass transition temperature	°C	7
Relative viscosity (1% THF – 20°C)		1.46

4. Film properties

Oxygen transmission, 25°C – 85% R.H.	cm^3.10µm/m².d.b	10
Water vapor transmission, 38°C – 90% R.H.	g.10µm/m².d	3
Shrinkage in boiling water	%	45

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

5. Composition

As supplied, IXAN PV 910 is a copolymer VDC / MA formulated with 2 % ESO that gives it suitable properties for coextrusion (with EVA or PE) for the production of films for the food packaging.

6. Processing

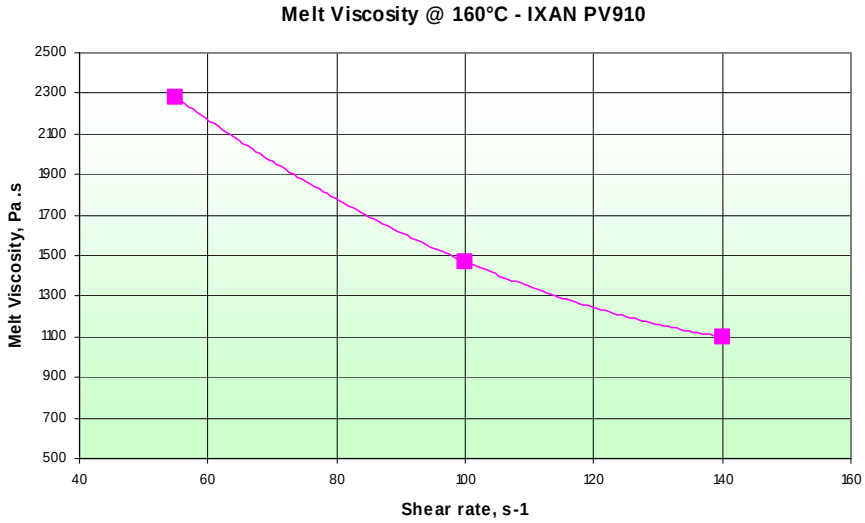
IXAN PV 910 can be processed by extrusion or coextrusion using machine designs that allow streamlined plastic flow that minimizes the risk of plastic hold-up in the equipment. Construction materials for the machine must have high corrosion resistance (X-ALLOY, COLMONOY, HASTELLOY, DURANICKEL, etc.).

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

As a guideline, the following processing conditions can be used during the extrusion of IXAN PV 910 :

- Temperature profile: 125 – 135 – 145 – 155 – 165 – 165°C
- Melt temperature: 165°C
- Screw 24 D; Compression ratio: 3.5/1.

7. Technical item



8. Food legislations

The monomers used for the production of DIOFAN PV 910 are listed in the European Directive 2002/72/CEE Annex II. Additives are listed in Annex III of this Directive.

IXAN PV 910 complies with U.S. FDA chapters 21 CFR 177.1990.

SolVin will provide necessary certification upon request by its customers.

9. ISO certification

The production, the marketing and sales and the delivery of IXAN vinylidene chloride copolymers (PVDC) produced in Tavaux have been audited and found to conform to the requirements of the standard ISO 9001 (2000). The corresponding certificate has been delivered under AFAQ application rules on July 2003.

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