PVDC from SolVin

IXAN® PVS 815

Ready-to-use premix
for meat packaging films

1. Purpose

IXAN PVS 815 is a PVDC-based premix 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	0.8
Mean particle size	µm	200

3. Polymer characteristics

Melt temperature	°C	155
Melt viscosity at 160°C, 100 s^{-1}	Pa.s	1100
Specific gravity	kg/dm^3	1.65
Glass transition temperature	°C	7
Thermal stability at 165°C	min	18
Relative viscosity (1% THF – 20°C)		1.46

4. Film properties

Oxygen transmission, 25°C – 85% R.H.	cm^3.10µm/m².d.b	15
Water vapor transmission, 38°C – 90% R.H.	g.10µm/m².d	4
Carbon Dioxyde Transmission, 23°C- 50%RH	cm^3.10µm/m².d.b	45
Crystallinity index, 7 days - 23°C		1.30
Shrinkage in boiling water	%	45

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

5. Premixing

As supplied, IXAN PVS 815 is formulated with an additive package that gives it suitable properties for coextrusion (with EVA / PE) for the production of films for the packaging of meat.

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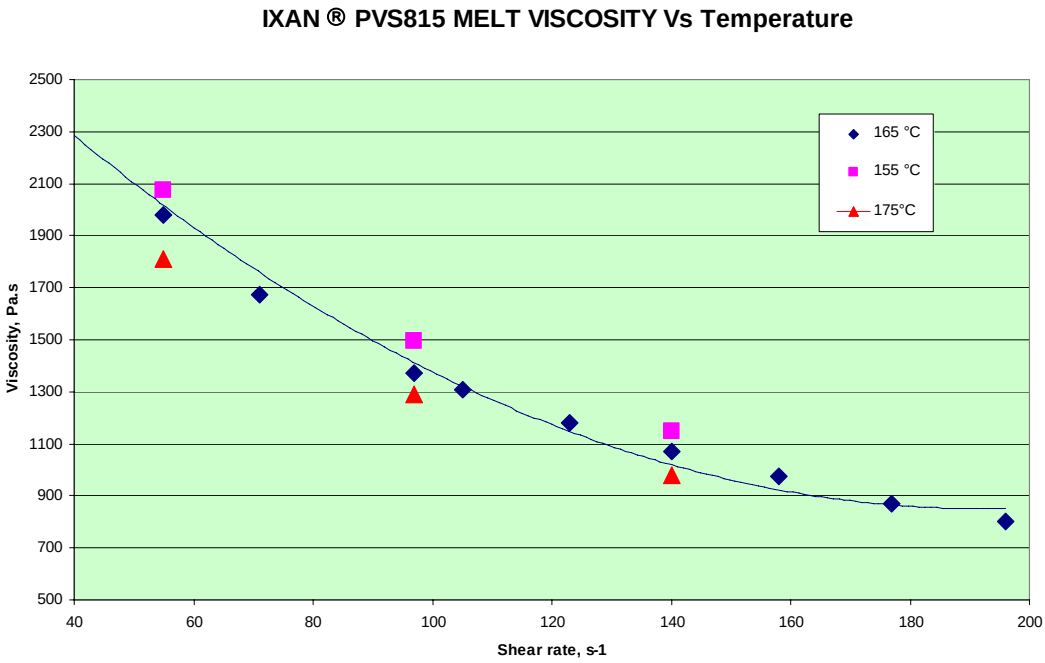
6. Processing

IXAN PVS 815 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.).

As a guideline, the following processing conditions can be used during the extrusion of IXAN PVS 815:

- 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 PVS 815 are listed in the European Directive 2002/72/CEE enclosure II section A. Additives are listed in Enclosure III of this Directive.
The base resin complies with U.S. FDA chapters 21 CFR, 177.1990 and the additives comply with U.S. FDA chapters 21 CFR 181.27, 178.2010 and 178.3770.

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.