

## Ixan® PVS 119

### polyvinylidene chloride

Ixan® PVS 119 is a ready-to-process PVDC based premix of low viscosity formulated to offer very good thermal stability as well as good oxygen and water vapor barrier properties.

It is suitable for both extrusion and co-extrusion processes and is particularly recommended for use

as barrier layers in multilayer food and medical packaging applications. Its very low permeability to water and oxygen makes this grade very suitable for applications requiring very long term shelf life.

Ixan® PVS 119 is compliant with FDA and EU 10/2011 requirements and is supplied as an off-white, free-flowing powder.

#### General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Features	• Moisture Barrier	• Oxygen Barrier
Uses	• Food Packaging	• Medical Packaging
Agency Ratings	• EU 10/2011 <sup>1</sup>	• FDA <sup>1</sup>
Appearance	• Off-White	
Forms	• Powder	
Processing Method	• Coextrusion	• Extrusion

Physical	Typical Value	Unit	Test method
Density	1.70	g/cm <sup>3</sup>	ISO 1183
Apparent (Bulk) Density	0.80	g/cm <sup>3</sup>	ISO 60
Particle Size - Average Diameter	220	µm	Internal Method

Films	Typical Value	Unit	Test method
Oxygen Transmission Rate <sup>2</sup> 23°C, 85% RH, 10 µm	7.0	cm <sup>3</sup> /m <sup>2</sup> /24 hr	ASTM D3985
Water Vapor Transmission Rate <sup>2</sup> 38°C, 90% RH, 10 µm	2.0	g/m <sup>2</sup> /24 hr	ASTM F1249

Thermal	Typical Value	Unit	Test method
Melting Temperature	158	°C	ISO 11357-3

Fill Analysis	Typical Value	Unit	Test method
Melt Viscosity (160°C, 100 sec <sup>-1</sup> )	1400	Pa·s	Internal Method

# Ixan® PVS 119

## polyvinylidene chloride

---

### Additional Information

---

#### PROCESSING

- As supplied, Ixan® PVS 119 is formulated for the extrusion or the coextrusion of multilayer barrier films. It can be processed by extrusion using machine designs that allow streamlined plastic flow in order to minimize the risk of plastic hold-up in the equipment.
- Regarding construction materials for the machine, we recommend that the parts in contact with the melt PVDC have high corrosion resistance and contain no catalytic materials (see below), i.e. those made of high Ni alloys like Xaloy®, Duranickel®, Colmonoy®, or Hastelloy®.
- It is essential that the temperature of Ixan® PVS 119 melt is kept below 180°C and the residence time is minimized.
- Thermal degradation during melt processing will release hydrogen chloride (HCl) gas. This reaction is catalysed by the presence of Iron (Fe), Copper (Cu), and Zinc (Zn).

Please contact Customer Technical Development team for further information about Ixan® PVS 119 processing and for technical support during extrusion trials.

#### STORAGE

- Keep in a well-ventilated and dry place
- Do not store in heat or direct sunlight
- Keep only in the original package at a temperature not exceeding 40°C

#### 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.

## Notes

---

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Please contact your Account Manager to request an EU food contact and/or FDA letter which provides the specifications for compliance with these regulations.

<sup>2</sup> Cast film extruded (EVA/PVDC/EVA) -- film conditioned two days at 40°C

---

## www.syensqo.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

Neither Syensqo nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Syensqo's products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Syensqo's recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right.

All trademarks and registered trademarks are property of the companies that comprise the Syensqo or their respective owners.

© 2024 2023 Syensqo. All rights reserved.

