Diofan® A 736
polyvinylidene chloride

DIOFAN® A 736 is a PVDC water-based dispersion recommended for use as a flexible underlayer for barrier coating on rigid PVC or PVC/ PE film, to be covered with DIOFAN® 193 D as top coat. The film structure is used for blister application in pharmaceutical packaging.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Features	• Good Flexibility • Moisture Barrier	• Oxygen Barrier
Uses	• Barrier Coatings	• Coating Applications
Agency Ratings	• DMF 11383 • EC 1907/2006 (REACH)	• EU No 10/2011 • FDA [1]
Appearance	• Milky White	
Forms	• Liquid	

Physical	Typical Value	Unit
Density		
Coating (dry)	1.65	g/cm³
Dispersion (wet)	1.33	g/cm³
Emulsion Type	Anionic	
Filmability - Minimum Film Forming Temperature	17	°C
pH	Acidic	
Solids Content	60	%
Surface Tension - Foaming tendency	46	mN/m
Viscosity (20°C)	20	mPa·s

Films	Typical Value	Unit	Test method
Oxygen Transmission Rate			ASTM D3985
25°C, 85% RH, 1.0 µm	21	cm³/m²/24 hr	
Water Vapor Transmission Rate			ASTM F1249
38°C, 90% RH, 1.0 µm	18	g/m²/24 hr	

Impact	Typical Value	Unit
Tensile Impact Strength [2]	500	kJ/m²

Additional Information	Typical Value	Unit
Ball Drop Test [2]	> 900	mm
Shelf Life - Latex (23°C)	12	month

DELIVERY AND STORAGE

- Diofan® A 736 is delivered in bulk or in Intermediate Bulk Containers (IBC). Bulk supplied latex should be stored in reservoirs made of suitable stainless steel, HDPE, rigid PVC or glass fiber-reinforced polyester.
- Contact of anionic Diofan® dispersion with metals like iron, zinc, aluminum and copper as well as alloys such as brass and bronze must be avoided.
- Keep the vessels tightly closed to prevent drying through evaporation. Store the product ideally between 5°C and 30°C (41 °F and 86°F) to avoid degradation.
- IBC should be protected from sunlight exposure.

PROCESSING - DRYING

- Diofan® A 736 can be processed with different coating techniques, including reverse gravure roll and air knife coating systems.
- Diofan® coatings require adequate drying conditions, since, in general, higher temperatures will result in better barrier properties.

FOOD AND DRUG LEGISLATIONS

- Some agency ratings are listed on page 1. Necessary certification will be provided upon request.

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.

Notes

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

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

[2] Coating properties: 40 g/m² PVDC coating on PVC 250 µm stored 6 months at 23 °C, 50% RH

www.syensqo.com

SYENSQO