Diofan® B 206

polyvinylidene chloride

Diofan® B 206 is a PVDC water-based dispersion designed for high speed coating process of plastic films. This new grade is recommended for food packaging applications when both good barrier properties and low sealing temperatures are needed.

General

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

Physical	Typical Value	Unit
Density		
Coated film (dry)	1.65	g/cm³
Dispersion (wet)	1.32	g/cm³
Emulsion Type	Anionic	
Filmability - Film Forming Temperature	13	°C
pH	2.0	
Solids Content	60	%
Surface Tension - Foaming tendency	46	mN/m

Mechanical	Typical Value	Unit	Test method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.30		

Films	Typical Value	Unit	Test method
Water Vapor Transmission Rate [2] (38°C, 90% RH)	7.0	g/m²/24 hr	ASTM F1249
Oxygen Transmission Rate - (23°C, 0% RH, 1.0 µm) [2]	35	cm³/m²/bar/ 24 hr	ASTM D3985
Heat Seal Maximum Resistance - 20 PSI - 1s - 1 heated jaw	1.8	N/cm	
Heat Seal Threshold - 0.4 N/cm; 20 PSI - 1s - 1 heated jaw	104	°C	

Additional Information	Typical Value	Unit
Shelf Life (23°C)	12	month

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DELIVERY AND STORAGE

- Diofan® B 206 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.

PROCESSING - DRYING

- Diofan® B 206 can be processed with different coating techniques, including reverse gravure roll and air knife coating systems.
- When coated on plastic films, Diofan® B 206 should be formulated with wax and silica in order to improve the blocking and slip properties of the finished coating.
- Diofan® coatings requires adequate drying conditions, since in general higher temperatures will contribute to 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 14001:2015, ISO 9001:2015, OHSAS 18001:2017, and ISO 50001:2011.

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 on BOPP film. Diofan® coating weight dry: 3.3 g/ m²; used additive package: 20 g/kg wax + 1 g/kg silica