

Diofan® A 063

polyvinylidene chloride

Coatings of Diofan® A 063 PVDC water-based dispersion exhibit good adhesion on Corona treated polyolefin and PET films. The coatings are tack free. This grade is in particular

recommended for the coating of extruded - laminated PE, and as an extrusion primer for PE on various substrates.

General

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

Physical

Typical Value Unit

Density		
Coated film (dry)	1.65 g/cm ³	
Dispersion (wet)	1.30 g/cm ³	
Emulsion Type	Anionic	
Filmability - Film Forming Temperature	19 °C	
pH	2.0	
Solids Content	50 %	
Surface Tension - Foaming tendency	40 mN/m	
Viscosity - Dynamic (20°C)	8 mPa·s	

Mechanical

Typical Value Unit

Test method

Coefficient of Friction vs. Itself - Dynamic	0.35	ASTM D1894
---	------	------------

Films

Typical Value Unit

Test method

Water Vapor Transmission Rate ² 38°C, 90% RH, 1.0 µm	37 g/m ² /24 hr	ASTM F1249
Oxygen Transmission Rate - (25°C, 85% RH, 1.0 µm) ²	21 cm ³ /m ² /bar/24 hr	ASTM D3985
Heat Seal Maximum Resistance - 20 PSI - 1s - 1 heated jaw	2.2 N/cm	
Heat Seal Threshold - 0.4 N/cm; 20 PSI - 1s - 1 heated jaw	107 °C	

Additional Information

Typical Value Unit

Shelf Life (23°C)	10 month	
-------------------	----------	--

Diofan® A 063

polyvinylidene chloride

DELIVERY AND STORAGE

- Diofan® A 063 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 25°C (41 °F and 77°F) to avoid degradation.

PROCESSING - DRYING

- Diofan® A 063 can be processed with different coating techniques, including reverse gravure roll and air knife coating systems.
- When coated on plastic films, Diofan® A 063 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 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 on BOPET film. Diofan® coating weight dry: 1.7 g/m²; used additive package: 5g/kg wax + 5 g/kg silica



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 Solvay Specialty Polymers 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 Solvay'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 Solvay'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 Solvay Group or their respective owners.

© 2019 Solvay Specialty Polymers. All rights reserved.