Diofan® B 204

Polyvinylidene Chloride

Solvay Specialty Polymers

Message:

Diofan® B 204 is a PVDC latex with outstanding impermeability to gases and moisture. It is particularly recommended for coatings on plastic films.

General Information			
Uses	Coating application		
Agency Ratings	EC 1907/2006 (REACH) FDA 21 CFR 175.320 FDA 21 CFR 177.1630 Europe No 10/2011		
Appearance	milky white		
Forms	Liquid		
Physical	**Nominal Value**	**Unit**	
pH	1.5		
Surface tension-Foaming trend	45	mN/m	
Film formation-Film forming temperature	14	°C	
Solids Content	51	%	
Density			
Dispersion (wet)	1.270	g/cm³	
Coating (dry)	1.650	g/cm³	
Emulsion type	anion		
Viscosity-Dynamic(20°C)	17	mPa·s	
Oxygen transfer rate-85% RH [1]	11	cm³/m²/bar/24 hr	ASTM D3985
Heat Sealing Threshold-0.4 N/cm [2]	124	°C	
Maximum heat seal resistance-20 psi - 1s - 1 heated jaw [3]	1.0	N/cm	
Shelf life (23°C)	12	month	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction [4] (vs. Itself - Dynamic)	0.35		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Water Vapor Transmission Rate [5] (38°C, 90% RH, 1.0 µm)	11	g/m²/24 hr	ASTM F1249
Additional Information	**Nominal Value**	**Unit**	

DELIVERY AND STORAGE

Diofan® B 204 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® B 204 can be processed with different coating techniques, including reverse gravure roll and air knife coating systems.

When coated on plastic films, Diofan® B 204 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.

NOTE	
1.	BOPP coating; Weight of paint: 2.7g/m; Additive package: 20 g/kg wax 3 g/kg silicon
2.	Heat sealing condition: 20psi-1s-1 heating clamp
3.	Heat sealing condition: 20psi-1s-1 heating clamp
4.	BOPP coating; Weight of paint: 2.7g/m; Additive package: 20 g/kg wax 3 g/kg silicon
5.	Coating on PET film. Diofan® coating weight dry: 2.5 g/m^2; used additive package: 5 g/kg wax + 5 g/kg silica

Recommended distributors for this material

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