

# Diofan® A 050

Polyvinylidene Chloride

Solvay Specialty Polymers

## Message:

DIOFAN® A 050 is a standard PVDC latex grade for coatings on various substrates. It is generally used as a topcoat on paper, cardboard and as a coating on plastic films.

General Information			
Features	Moisture proof		
	Oxygen barrier		
Uses	Coating application		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 175.105		
	FDA 21 CFR 175.300		
	FDA 21 CFR 176.170		
	FDA 21 CFR 176.180		
	FDA 21 CFR 177.1630		
	Europe No 10/2011		
Appearance	milky white		
Forms	Liquid		
Physical	Nominal Value	Unit	
pH	3.0		
Surface tension-Foaming trend	32	mN/m	
Film formation-Minimum film forming temperature	18	°C	
Solid content-By weight	58	%	
Density			
Dispersion (wet)	1.310	g/cm <sup>3</sup>	
Coating (dry) <sup>1</sup>	1.650	g/cm <sup>3</sup>	
Emulsion type	anion		
Viscosity (20°C)	10	mPa · s	
Oxygen transfer rate-(25°C, 85% RH, 1.0 µm) <sup>2</sup>	54	cm <sup>3</sup> /m <sup>2</sup> /bar/24 hr	ASTM D3985
Heat Sealing Threshold-0.4 N/cm <sup>3</sup>	110	°C	
Maximum heat seal resistance-20 psi - 1s - 1 heated jaw <sup>4</sup>	2.2	N/cm	
Shelf life (23°C)	12	month	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction <sup>5</sup> (vs. Itself - Dynamic)	0.21		ASTM D1894

Films	Nominal Value	Unit	Test Method
Water Vapor Transmission Rate <sup>6</sup> (38°C, 90% RH, 1.0 µm)	16	g/m <sup>2</sup> /24 hr	ASTM F1249
Additional Information	Nominal Value	Unit	
<p><b>DELIVERY AND STORAGE</b></p> <p>Diofan® A 050 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.</p> <p>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.</p> <p><b>PROCESSING - DRYING</b></p> <p>Diofan® A 050 can be processed with different coating techniques, including reverse gravure roll and air knife coating systems.</p> <p>When coated on plastic films, Diofan® A 050 should be formulated with wax and silica in order to improve the blocking and slip properties of the finished coating.</p> <p>Diofan® coatings requires adequate drying conditions, since in general higher temperatures will contribute to better barrier properties.</p> <p><b>FOOD AND DRUG LEGISLATIONS</b></p> <p>Some agency ratings are listed on page 1. Necessary certification will be provided upon request.</p> <p><b>ISO CERTIFICATION</b></p> <p>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.</p>			

NOTE	
1.	BOPP coating; Weight of paint: 2.7g/m; Additive package: 20 g/kg wax 3 g/kg silicon
2.	Coating on BOPP; coating weight : 2.7 g/m <sup>2</sup> ; additive package : 20 g/kg wax + 3 g/kg silica
3.	Coating on BOPP; Coating weight: 2.7g/m; Auxiliary package: 20 g/kg wax 3 g/kg silicon -20 PSI-1s -1 heating clamp
4.	Coating on BOPP; Coating weight: 2.7g/m; Auxiliary package: 20 g/kg wax 3 g/kg silicon -20 PSI-1s -1 heating clamp
5.	BOPP coating; Weight of paint: 2.7g/m; Additive package: 20 g/kg wax 3 g/kg silicon
6.	BOPP coating; Weight of paint: 2.7g/m; Additive package: 20 g/kg wax 3 g/kg silicon

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#### Recommended distributors for this material

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