

## Solvay Specialty Polymers Diofan® P510 Polyvinylidene Chloride (PVDC) (discontinued \*\*)

Category : Polymer , Thermoplastic , PVDC , Polyvinyl Dichloride (PVDC)

### Material Notes:

DIOFAN® P510 is an one-component latex, water based dispersion of a polyvinylidene chloride copolymer. It is free of solvent traces, alkylphenol ethoxylates or any other toxic substances. Thanks to its low oxygen and water vapor permeabilities as well as its low water absorption, DIOFAN® P510 is an outstanding protective copolymer used in a broad variety of formulations, specific to the end use. Developed to adhere on metal, it is the ideal binder for one-component, air drying, waterborne formulated paints and coatings where high protection of the substrate is targeted. DIOFAN® P510 combines also high chemical resistance and fire retardant properties. END USES: - Anticorrosion primers and coatings for industrial and heavy duty steel protection - Automotive primers and underbody coatings - Rust converter products - Barrier and sealing coatings, Flame resistant coatings; Fibers and textile coatings. Additional Information: DELIVERY AND STORAGE: - DIOFAN® P510 will be delivered in bulk or in Intermediate Bulk Containers (IBC). Storage of bulk latex is in reservoirs made of stainless steel, HDPE, rigid PVC or glass fiber reinforced polyester. In particular, metals like iron, zinc, aluminum and copper as well as alloys like brass and bronze have to be avoided for contact with the dispersions. To prevent from drying by evaporation, please keep the vessel tightly closed. To avoid degradation, store the product preferably between 10 and 25°C. REGULATORY INFORMATION - The monomers used for the production of DIOFAN® P510 comply with the requirements of the EU Commission Regulation No. 10/2011 of 14 January 2011. - DIOFAN® P510 complies fully with the U.S. Federal Food, Drug and Cosmetic Act and all applicable food additive regulations. - The monomers used for the production of DIOFAN® P510 comply with the Regulation (EC) 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). - SolVin will provide further certification documentation 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. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Diofan-P510-Polyvinylidene-Chloride-PVDC-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Diofan-P510-Polyvinylidene-Chloride-PVDC-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	
Solids Content	60 %	60 %	
pH	1.2	1.2	
Water Vapor Transmission	50.0 g/m <sup>2</sup> /day @Temperature 38.0 °C	3.22 g/100 in <sup>2</sup> /day @Temperature 100 °F	90% RH; 1 µm
Oxygen Transmission Rate	150 cc/m <sup>2</sup> /day	9.66 cc/100 in <sup>2</sup> /day	25°C, 1.0 µm, 0% RH
Surface Tension	44 dynes/cm	44 dynes/cm	

Thermal Properties	Metric	English	Comments
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<b>Thermal Properties</b>	<b>16.0 °C Metric</b>	<b>60.8 °F English</b>	<b>Film DSC Comments</b>
<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>	
<b>Agency Ratings</b>	EC 1907/2006 (REACH)		
	EUNo 10/2011		
<b>Appearance</b>	Milky white liquid		
	White		
<b>Availability</b>	Asia Pacific		
	Europe		
	North America		
<b>Emulsion Type</b>	Anionic		
<b>Features</b>	Barrier Resin		
	Flame Retardant		
	Good Adhesion		
	Good Chemical Resistance		
	Low to No Water Absorption		
	Non-Toxic		
<b>Filmability</b>	12°C	Minimum Film Forming Temperature	
<b>Forms</b>	Liquid		
<b>Generic</b>	PVDC		
<b>Uses</b>	Coating Applications		

## Contact Songhan Plastic Technology Co.,Ltd.

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