



Daran[®] Barrier Emulsions and Polidene[®] PVDC Emulsions

For Packaging and Industrial Coatings

















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Daran[®] Barrier Emulsions

Solutions for Flexible and Rigid Packaging

Daran[®] aqueous emulsions improve pharmaceutical and food packaging materials by providing barrier properties which prevent the transmission of moisture vapor, oxygen, and odors. Daran[®] coated structures provide excellent gloss & clarity, good heat seal strength, and the ability to be thermoformed. The Daran[®] family of barrier emulsions can also be used as barrier adhesives and extrusion primers.

Product	Description		Application
Daran [®] SL112	 High barrier performance for protection from oxygen and water vapor High surface tension for holdout in porous materials 	Basecoat for paper packaging	Paper coatings, Film coatings
Daran [®] SL243	 High barrier performance for protection from oxygen and water vapor High surface tension for holdout in porous materials 	Oil & grease resistance	Paper coatings
Daran [°] SL158	 High barrier performance for protection from oxygen and water vapor Heat sealable with good seal strength at high line speeds 	 Quickly develops resistance to haze when exposed to solvent inks and laminating adhesives 	Paper coatings, Film coating, Printing inks
Daran [®] SL159	 High barrier performance for protection from oxygen and water vapor Heat sealable with good seal strength at high line speeds 	 Improved slip, anti-blocking, and other surface characteristics Thermoformable 	Pharmaceutical blister pack, Paper coatings, Encapsulation
Daran [®] 195	 Barrier performance for protection from oxygen and water vapor Heat sealable with good seal strength at high line speeds 	Thermoformable	Film coatings, Encapsulation
Daran [®] 400	 Barrier performance for protection from oxygen and water vapor Heat sealable with good seal strength at high line speeds 	Thermoformable	Film coatings, Encapsulation
Daran [°] 546L	 Barrier performance for protection from oxygen and water vapor Laminating adhesive for treated films 	Low foam and viscosity for gravure and reverse gravure	Film coating, Barrier laminating adhesives, Extrusion coatings
Daran [°] 2010	Barrier performance for protection from oxygen and water vapor	Excellent adhesion to polyolefins	Film coatings, Barrier laminating adhesives, Primer coatings
Daran [®] 2026	 Barrier performance for protection from oxygen and water vapor 	 Excellent adhesion to paper and polyolefins without the need for additional primer 	Film coatings, Barrier laminating adhesives, Primer coatings
Daran [®] 2060	 Barrier performance for protection from oxygen and water vapor Can be formulated as a jaw release coating 	 Excellent adhesion to paper and polyolefins without the need for additional primer 	Film coatings, Primer coatings, Jaw release coatings
Daran [°] 2061	 Barrier performance for protection from oxygen and water vapor Can be formulated as a jaw release coating 	 Excellent adhesion to paper and polyolefins without the need for additional primer 	Film coatings, Primer coatings, Jaw release coatings
Daran [®] 8100	 Superb barrier performance for protection from oxygen and water vapor 	Thermoformable	Pharmaceutical blister pack
Daran [°] 8550	 Superb barrier performance for protection from oxygen and water vapor 	Excellent film formation	Film coatings, Paper coatings

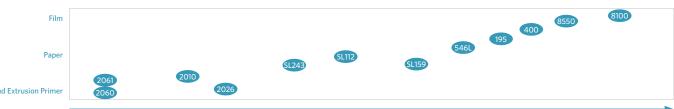


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Daran[®] Barrier Technology



Laminating and Extrusion Primer

Barrier Properties

	Non-Volatile Content (%)	Viscosity (cps)*	Surface Tension (dynes/cm)	pH	Tg of film (°C)	Shelf Life (months)
Daran [®] SL112	54	15	67	2.0	20	9
Daran [®] SL243	54	15	60	2.0	14.5	9
Daran [®] SL158	58	15	40	2.0	18.5	6
Daran [®] SL159	54	12	42	2.0	18.5	9
Daran [®] 195	58	10	38	3.0	17.9	12
Daran [®] 400	58	10	38	1.8	17.9	6
Daran [®] 546L	46	35	51	2.3	9	6
Daran [®] 2010	50	10	46	1.8	22.6	3
Daran [®] 2026	45	12	38	1.5		6
Daran [®] 2060	50	10	45	1.5	22.7	6
Daran [®] 2061	50	10	38	1.5	22.7	12
Daran [®] 8100	60	22	32	3.0	18.5	12
Daran [°] 8550	49	12	52	2.0	17	6

* LVF#1, @60rpm @25°C/77°F



Polidene® PVDC Emulsions

Solutions for Industrial Coatings

Polidene[®] aqueous, low VOC, PVDC emulsions enhance direct-to-metal, construction, and industrial coatings by providing low water vapor permeability and early water resistance.

- **Corrosion Protection:** Polidene[®] based anticorrosive primers and single coat systems provide excellent corrosion resistance for water-based paints, which are better for both health and the environment.
- Moisture Vapor Barrier: Polidene[®] based single component coatings and primers are easy to apply and increase protection against moisture when applied to hygroscopic surfaces.
- **Fire Retardant:** Polidene[®] based fire retardant and intumescent coatings check flame spread and retard heat penetration in industrial coatings and textiles.

	Automotive primers & Underbody coatings	(1K DTM) Metal Coatings	Textiles & Fabrics	Hygroscopic construction materials	Fire retardant & Intumescent coatings	Key Properties	H	Non-Volatile Content (%)	Viscosity (cps)*	Tg (°C)
Polidene [®] SL143	Х			х		Outstanding metal protection and high surface tension for holdout in porous materials	2	54	15	14.5
Polidene [®] 33-086			х		х	Excellent early water and corrosion resistance, good adhesion to synthetic fibers, self-crosslinking, flexible binder	4.5	55	150	-4
Polidene [*] 37-0065	Х	Х				Excellent early water, chemical and corrosion resistance	2.5	60	50	16
Polidene [®] 777		Х			Х	Outstanding metal protection & chemical resistance	4	55	15	22

* LVF#1, @60rpm @25°C/77°F



Borchers Americas, Inc. Borchers GmbH Milliken Chemical & Textile (India) Co. Private Limited Milliken Enterprise Management (Shanghai) Co.,Ltd. Chemical Division-Borchers

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