



DARAN[®] SL112

PVdC Latex High Barrier Coating

Daran SL112 is a general purpose high barrier PVdC latex offering excellent film formation and flexibility. This product is a low-foaming coating which can be applied by standard conventional methods of either direct reverse gravure or wire wound metering rods.

	<u>English Units</u>	<u>Metric Units</u>
Typical Latex Properties		
Total Solids	54 %	54 %
pH	~2.0	~2.0
Particle Size	100 nm	100 nm
Viscosity (LVF, #1 @ 60 rpm)	15 centipoise	15 mPa•sec
Latex Density	10.6 lbs./gallon	1.27 kg/dm ³
Surface Tension	67 dynes/cm	67 mN/m
Minimum film-forming Temperature	70 °F	21 °C
Mechanical Stability	Excellent	Excellent
Alcohol Tolerant (2% IPA) ¹	Yes	Yes
Stability on freezing	none	none
Shelf Life at 70°F ²	9 months	9 months
Recommended Storage Temperature	40-85 °F	5-30 °C

Typical Film Properties		
Water Vapor Transmission Rate (ASTM E-96)	0.049 g•mil/100in ² •day (100°F and 90%RH)	19 g•µm/m ² •day (38°C and 90%RH)
Oxygen Transmission Rate	0.034 cm ³ •mil/100in ² •day•atm (77°F and 55%RH)	13 cm ³ •µm/m ² •day•atm (25°C and 55%RH)
Carbon Dioxide Transmission Rate	0.18 cm ³ •mil/100in ² •day•atm (73°F)	70 cm ³ •µm/m ² •day•atm (23°C)
Rate of Crystallization at room temperature (Solvent Resistance)	15 days	15 days
Minimum Sealing Temperature	270 °F (1sec at 5 psi)	130 °C (1sec at 35 kPa)
Glass Transition Temperature, T _g	66-70 °F	19-21 °C

- Alcohol tolerant refers to the maximum amount of IPA that can be added to the latex without destabilizing it. Each customer must determine if this latex containing IPA is appropriate and compatible in their application.
- Shelf life will vary depending on storage conditions.

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