



DARAN[®] SL143

PVdC Latex High Barrier Coating

Daran SL143 will provide excellent flat and creased barrier to the transmission of water vapor, oxygen, grease, and oils. This coating can be applied by either direct reverse gravure or wire wound metering rods. Excellent film formation and a high surface tension make this an ideal choice for coating onto porous substrates such as kraft paper and paperboard. This crystalline product has exceptional flexibility.

Typical Latex Properties	English Units	Metric Units
Total Solids	54 %	54 %
pH	~2.0	~2.0
Particle Size	105 nm	105 nm
Viscosity (LVF, #1 @ 60 rpm)	15 centipoise	15 mPa•sec
Latex Density	10.85 lbs./gallon	1.30 kg/dm ³
Surface Tension	60 dynes/cm	60 mN/m
Minimum film-forming Temperature	60 °F	15 °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	English Units	Metric Units
Water Vapor Transmission Rate (ASTM E-96)	0.11 g•mil/100in ² •day (100°F and 90%RH)	43 g•µm/m ² •day (38°C and 90%RH)
Oxygen Transmission Rate	0.14 cm ³ •mil/100in ² •day•atm (77°F and 55%RH)	55 cm ³ •µm/m ² •day•atm (25°C and 55%RH)
Rate of Crystallization at room temperature (Solvent Resistance)	15 days	15 days
Minimum Sealing Temperature	250 °F (1sec at 5 psi)	120 °C (1sec at 35 kPa)
Glass Transition Temperature, T _g	57-59 °F	14-15 °C

1. 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.
2. Shelf life will vary depending on storage conditions.

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