Chemical-Resistant ADH powered by Sustainable Ideas



UnistoleTM

Durable & Flexible

Emerging technology demands chemically durable adhesives but a few of them are tolerable in a harsh environment such as high acid/alkali. Unistole[™] is sustainable adhesive lacquer with excellent chemical resistance which is used as both heat sealing lacquers and dry bond lamination adhesives.

Unistole for packaging adhesives

Flat flexible cable





✓ Heat-sealing lacquers for POs & metals

- V Non-chlorine based polymer (Poly olefin)
- Soft and extensible



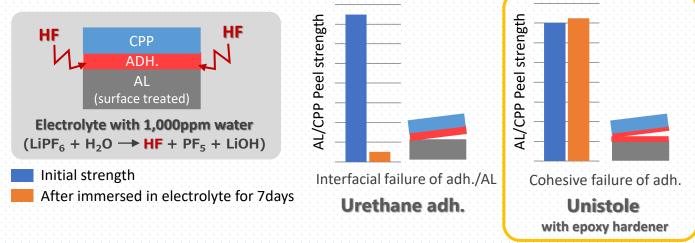
LIB pouch

RFID tag

- Excellent chemical resistance
- Low Dk & Df (Dk; Dielectric Constant Df; Dissipation factor)

Chemical resistance of AL/CPP LAM with Unistole

Unistole with epoxy hardener shows excellent chemical resistance. No significant deterioration is observed after the immersed test.



Cold formability of AL/CPP/NY LAM with Unistole

No whitening occurs after deep cold forming.



Formed in 5mm depth



LAM by extrusion



Unistole with epoxy hardener

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Mitsui Chemicals

UnistoleTM

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Durable & Flexible

Grade		XP01A		R-303G
Appearance		Slightly turbid solution		Turbid solution
Solvents		Cyclohexane/Ethylacetate		Paraffinic hydro-carbon
Solid content (wt.%)		20		18
Viscosity (mPa·s)		120		60
- Film	Tm (°C)	75		150
ï	Dk/Df@10GHz	2.16 / 0.0004		-
Cha	racteristics	Low temp. hea	<u> </u>	Heat resistance ctric Constant Df; Dissipation factor
	Heat sealing	Extrusion coating	Laminat	Drying Coating Dry lamination
What is the solid content? 18-20%, in solvents such as cyclohexane. What is the coating weight? 3-6gsm is recommended.			How to coat? Gravure coating, etc. How to store? Store above 0°C . Avoid direct sunlight.	
What is the drying temperature? XP01A; 80-120°C is recommendable. R-303G; 200 °C is recommendable.			Food contact conformity? Please ask to contacts given below.	
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