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## Pressure Sensitive Labels Designed for Cleanroom Applications

### **ITW ALMA Cleanroom Labels**

*Pressure-sensitive labels designed for cleanroom applications*

- Ultra-low leachables, particulates and outgassing
- Cleaned and packaged in a Class 10/ISO Class 4 cleanroom
- Each label order is tested for surface particles
- Custom printed or blank versions with pin feed, perforated liner and lamination options
- Adhesives – removable or permanent



**ITW ALMA**

Wir verweisen auf die technischen Datenblätter des Herstellers

Erstelldatum 10/04

**QEL BRUNNER S.A.**

Fournitures et équipements pour salles blanches  
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	<b>DT</b>	<b>GL</b>	<b>MT</b>
Label Composition	Polypropylene	Polypropylene	Polypropylene
Film Thickness	3.2 mil. ± .10%	2.6 mil. ± .10%	3.0 mil. ± .10%
Opacity	N/A	91%	91%
Adhesive Composition	Acrylic-based	Acrylic-based	Acrylic-based
Adhesive Thickness	0.9 mil. – 1.0 mil. ± 0.1	0.9 mil. – 1.0 mil. ± 0.1	0.9 mil. – 1.0 mil. ± 0.1
Avg. Adhesive Peel R1*	23 (Stainless Steel)	20	18
Avg. Adhesive Peel R2*	34	25	27
Avg. Adhesive Peel P*	34	25	27
Top Coat Thickness	0.001 ± 0.0001	N/A	N/A
Release Liner	Polyester	Polyester	Polyester
Releaser Liner Thickness	1.4 mil. ± 10%	1.4 mil. ± 10%	1.4 mil. ± 10%
Min. Application Temp.	50° F (10° C)	50° F (10° C)	50° F (10° C)
Service Temperature	-20° F to 176° F (-29° C to 80° C)	-20° F to 176° F (-29° C to 80° C)	-20° F to 176° F (-29° C to 80° C)
Storage Stability	Two years stored at 70° F (21° C) and 50% RH	One year stored at 70° F (21° C) and 50% RH	One year stored at 70° F (21° C) and 50% RH
Packaging	Cleaned and double-bagged in a Class 10/ISO Class 4 cleanroom. Wound on 3" ID polyethylene core. Standard size is 1000 labels/roll.	Cleaned and double-bagged in a Class 10/ISO Class 4 cleanroom. Wound on 3" ID polyethylene core. Standard size is 1000 labels/roll.	Cleaned and double-bagged in a Class 10/ISO Class 4 cleanroom. Wound on 3" ID polyethylene core. Standard size is 1000 labels/roll.

\*This data represents test averages conducted on polished stainless steel/0 dwell. Peel adhesion tests should be conducted on the end-user application in end-use conditions to ensure adhesion requirements are met.

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