

RF9020

THT-IC P&L RFID



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Description

A glossy high performance label with strong adhesive and very good tack. Excellent chemical resistance due the Print & Laminate construction. This label is provided with an UHF inlay with a scan ability up to 2 meters (depending on surface and surrounding). Please not that this RFID label is not working on metal surfaces.

Technical data

Face	TOP WHITE		
Product	A cavitated white bi-axially oriented, polypropylene film with a print-receptive topcoat.		
Basis Weight	45	g/m ²	ISO 536
Caliper	61	µm	ISO 534
Maximum Service Temperature	80	°C	

Inlay	
Antenna Width	27mm (1.06")
Antenna Length	9.7mm (0.38")
Web Width	40.0mm (1.575")
Web Pitch	15.875mm (0.625")
Core Width	40.0mm (1.575")
Core ID	152.4mm (6")
Core Material	Fiberboard

RFID	
Protocols Supported	ISO/IEC 18000-6C
Integrated Circuit	Alien Higgs-4
Operating Frequency	840-960 MHz
EPC Size	128 Bits
User Memory	128 Bits
TID	32 Bits
Unique TID	64 Bits
Access Password	32 Bits
Kill Password	32 Bits

Adhesive	Unit	Typical Value	Test Method
Peel Adhesion	N/25mm	15 to glass	FINAT 1
Loop Tack	N/25mm	16 to glass	FINAT 9
Service Temp	°C	-20 to 50 °C	----
Application Temp	°C	0 °C	----

Backing	Unit	Typical Value	Test Method
Substance	GSM	60 ± 5 %	TAPPI 410
Caliper	Micron	54 ± 7 %	TAPPI 411

Application

RF9020 Matt White is ideally suited to applications where label durability is required. These include pallet labelling, wet storage and industrial applications and drum labelling. This face stock has good thermal insulating properties. End user testing is required to confirm suitability of all components in end use application. Chemical resistance

Approvals

RoHs 2002/95/EC, 2005/618/EC, 2011/65/EU Compliant

REACH 1907/2006/EC Compliant (SVHC and ECHA)

Laminate

Description

L7 Laminate is designed as a universal durables labelling solution for clear applications, performing for the lifetime of the labelled product with very good adhesion and good print resistance against chemicals, UV-light, heat and moisture. Its universality helps simplify product portfolios and reduce testing and evaluation of label materials.

Face material

Clear, glossy, top-coated polyester film.

Basis weight	70 g/m ²	DIN 53352
Caliper	50 µm	DIN 53370

Adhesive

Clear permanent adhesive.

Composition	Radiation-cured UV-Acrylic.	
Tack	20	N/25mm FTM 9
Peel 180°	23	N/25mm FTM 1

Backing

A white transparent glassine backing paper.

Substance	60 g/m ²	ISO 536
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Caliper	53 µm	ISO 534
Tensile strength MD	6,6 kN/m	ISO 1924
Tensile strength CD	2,5 Kn/m	ISO 1924
Transparency	50 %	DIN 53147

Performance

Total caliper	129 µm
Minimum labelling temperature	5 °C
Service temperature	-40 °C to 200 °C

Shelf life

From date of manufacture: 24 months, under FINAT defined storage conditions (+20-25°C and RH 40-50%). Prolonged storage at higher temperatures and/or humidity levels will shorten the shelf life.

Disclaimer

Values shown in this document are averages only. For legal reasons, we emphasize that the information on this data is available as is and that Altec gives no guarantees with respect to the accuracy and completeness nor with respect to interpretations made on the basis of this information.