



RFO RECY 4428

UHF RFID Paper Label

DATA SHEET

Product Description		RFO RECY 4428
<p>The AGX RECY Tag is a recyclable RFID Tag. Has no plastic substrate inside and it is 100% paper based. Clean & green manufacturing through recyclability of the material. Another highlight of this Tag is the low carbon footprint.</p> <p>Standard Features for all type of AGX RECY Tags:</p> <ul style="list-style-type: none"> - Standard delivery format self-adhesive die-cut tag (paper wet inlay) - 100% yield on standard reels (faulty tags have been replaced) - Mid gloss face paper (= RECY antenna substrate), suitable for thermal transfer printing with selected ribbons - FSC certification for the paper + process targeted Q4/2020 - Reliability proven (more details later in the presentation) to be on industry standards (TH, TC, Bending tests) - Paper substrate thickness 101 microns (current standard products -> thinner substrates version on the product development roadmap) - AGX RECY Tags can be recycled in paper and cardboard recycling process. - The Dry Inlay (without adhesive) product is biodegradable and compostable 		
Physical Specifications		
Material	White woodfree paper, 101 um	
Adhesive	Permanent PSA	
Tag Layout	Sizes in mm & Tolerance in mm	
	<ul style="list-style-type: none"> - A1xA2 Antenna size: 42 x 26 (± 0,5) - B1xB2 Die-cut size: 44 x 28 (± 0,5) - C Web width: 55 (± 1,0) - D Pitch length (MD): 33,02 (± 0,5) - E Die-cut to web edge: 5,5 (± 1,5) - F Radius: 2 (± 0,2) 	



RF Specifications		
Protocol	EPC Class 2 Gen2 - ISO 18 000-63	
Frequency Range (MHz)	860-960 MHz	
Chip	NXP UCODE 8	
EPC Memory	128 bit	
Environmental Specification		
Operating Temperature	-40 °C...+85 °C / -40 °F...+185 °F	
ESD voltage immunity	± 2 kV peak HBM	
Shelf life: 1 year (from manufacturing date)	+20 °C / +68 °F, 50 % RH	
Bending diameter	>50 mm, tension less than 10 N	
Reliable	Tag passes all industry tests for reliability <ul style="list-style-type: none"> • Temperature & Humidity IEC 60068-2-67 • Temperature Cycling JESD22-A104-B • Tag Bending Test Voyantic Bendurance 	
Sustainable	Paper based, no plastic. No harmful substances in production or assembly <ul style="list-style-type: none"> • No chemicals required for etching • No carcinogenic substances • No polyurethanes, no nickel 	
Certifications	Recyclability: PTS RH 021/97 & TAPPI UM 213 (mod.) Biodegradability: EN13432, ISO17088, ASTM D6400	
Theoretical read range forward		
Orientation sensitivity		
Article no:	RFO RECY 4428	
Typical Applications		
Suitable for metal environment	Automotive	Apparel
Maintenance & Service	Oil & Gas, Offshore	Retail
Industrie & Logistics	Chemical Industry	Pharma



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