



## RFO RECY 4321 UHF RFID Paper Label

DATA SHEET

Product Description		RFO RECY 4321
<p>The AGX RECY Tag is a recyclable RFID Tag. Has no plastic substrate inside and it is 100% paper based. Clean &amp; 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"> <li>- Standard delivery format self-adhesive die-cut tag (paper wet inlay)</li> <li>- 100% yield on standard reels (faulty tags have been replaced)</li> <li>- Mid gloss face paper (= RECY antenna substrate), suitable for thermal transfer printing with selected ribbons</li> <li>- FSC certification for the paper + process targeted Q4/2020</li> <li>- Reliability proven (more details later in the presentation) to be on industry standards (TH, TC, Bending tests)</li> <li>- Paper substrate thickness 101 microns (current standard products -&gt; thinner substrates version on the product development roadmap)</li> <li>- AGX RECY Tags can be recycled in paper and cardboard recycling process.</li> <li>- The Dry Inlay (without adhesive) product is biodegradable and compostable</li> </ul>		
Physical Specifications		
Material	Art paper 80 g	
Adhesive	Permanent PSA	
Tag Layout	Sizes in mm & Tolerance in mm	
	<ul style="list-style-type: none"> <li>- A1x A2 Antenna size: 36 x 18 (± 0,5)</li> <li>- B1x B2 Die-cut size: 43 x 21 (± 0,5)</li> <li>- C Web width: 46 (± 1,0)</li> <li>- D Pitch length (MD): 25,4 (± 0,5)</li> <li>- E Die-cut to web edge: 1,5 (± 1,0)</li> <li>- F Radius: 2 (± 0,2)</li> <li>- H1 Antenna die-cut (CD): 1,5 (± 1,0)</li> <li>- H2 Antenna die-cut (CD): 5,5 (± 1,0)</li> <li>- I Antenna to die-cut (MD): 1,5 (± 1,0)</li> <li>- X Adhesive width (GP): 21,5 (± 1,0)</li> </ul> <p>Sizes Monza R6 RECY Tag: 48 x 20 mm</p>	



## RF Specifications

Protocol	EPC Class 2 Gen2 - ISO 18 000-63
Frequency Range (MHz)	860-960 MHz
Chip	NXP UCODE 8 oder Monza R6
EPC Memory	128 bit 96 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	<p>Tag passes all industry tests for reliability</p> <ul style="list-style-type: none"> <li>• Temperature &amp; Humidity IEC 60068-2-67</li> <li>• Temperature Cycling JESD22-A104-B</li> <li>• Tag Bending Test Voyantic Bendurance</li> </ul>
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Sustainable	<p>Paper based, no plastic. No harmful substances in production or assembly</p> <ul style="list-style-type: none"> <li>• No chemicals required for etching</li> <li>• No carcinogenic substances</li> <li>• No polyurethanes, no nickel</li> </ul>
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Certifications	<p>Recyclability: PTS RH 021/97 &amp; TAPPI UM 213 (mod.) Biodegradability: EN13432, ISO17088, ASTM D6400</p>
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Theoretical read range forward	
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Orientation sensitivity	
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## Typical Applications

Suitable for metal environment	Automotive	Apparel
Maintenance & Service	Oil & Gas, Offshore	Retail
Industrie & Logistics	Chemical Industry	Pharma



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