

## Materials Datasheet

## Antistatic EcoReel®

### PRODUCT DESCRIPTION

Antistatic EcoReel manufactured by Reel Service Ltd provides users with a budget option take up reel designed to transport & protect tape and reeled components.

EcoReel uses less plastic than fuller flange premium reels while still providing adequate mechanical & anti-static protection for components during transportation & storage.

EcoReel is manufactured using high impact polystyrene with an integrated antistatic additive .

EcoReel is fully compliant with EIA-481-F standard.

Inventory control is easy with EcoReel . Through the clever use of only 4 different sizes of EcoFlange, the considered design permits 7 different reel widths to be assembled from 8mm through to 56mm thus reducing the number of stock items to maintain.

### WARRANTY STATEMENT

All products come with a one year limited warranty.

### OTHER PRODUCTS AND SERVICES AVAILABLE

In addition to our EcoReel® we offer a complete range of all materials necessary for tape and reel operations including: carrier tape materials, cover tapes, humidity indicator cards, moisture barrier bags, desiccant and other sundry semiconductor finishing materials. Also available from our company is outsourced Tape & Reel packaging and device programming services.

Please contact our customer service team for further information on our complete range of tape and reel consumable materials & services.



### BASE MATERIAL

High Impact Polystyrene with Integrated Antistatic Additive

### SURFACE RESISTIVITY

Antistatic with surface resistivity  $\geq 1 \times 10^5$ ,  $< 1 \times 10^{11}$  Ohms per square.

### COLOUR AND WINDOWS

EcoReel is available in white with 3 windows per flange.

EcoReel provides a maximum label area of 129mm x 94mm.

### RECYCLABLE SPACE SAVING DESIGN

The inter-stacking design of EcoReel allows high density storage offering up to 180% space saving compared to assembled reels. This efficient design allows users to minimise storage space thereby reducing overall cost of ownership whilst also providing a product that contributes towards ISO 14000 / 14001 compliance.



### REEL DIAMETER

EcoReel® is available in 13inch (330mm) reel diameter and all tape width increments from 8mm – 56mm.

### HUB DIAMETER

EcoReel hub diameter is 4" (100mm) .

### ASSEMBLY

Two part EcoFlange (reel half) concept enables quick, easy self-assembly of EcoReel while minimising shipping volume. The two halves are simply rotated together to form the assembled reel, no tools or additional materials are required.

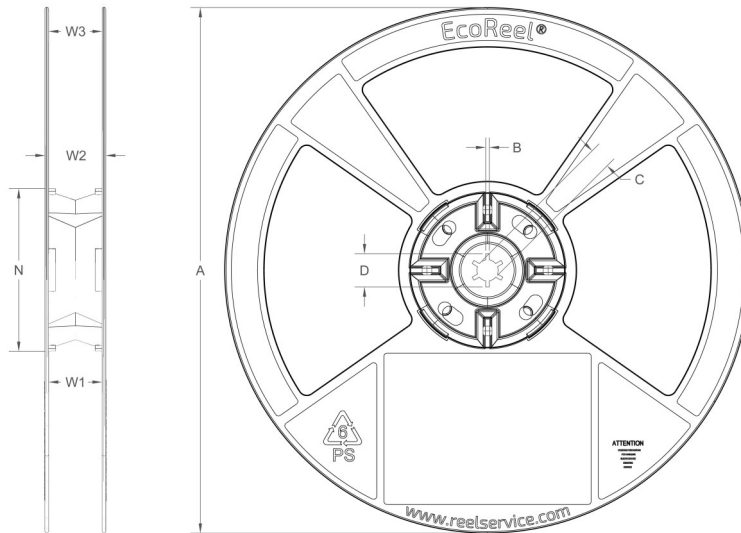
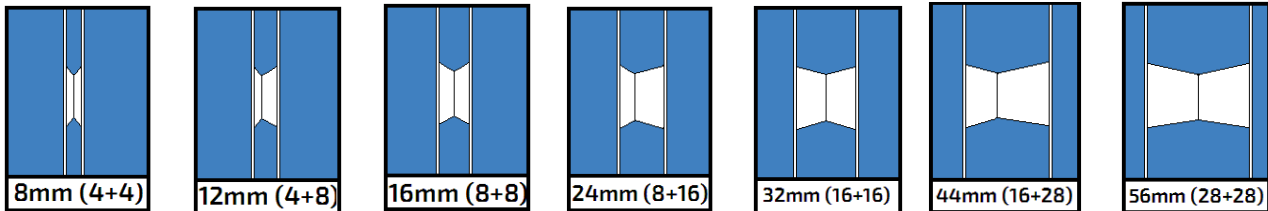
The illustrations overleaf outline the EcoFlange combinations required to assemble each reel width.

### SHELF LIFE AND STORAGE CONDITIONS

With a shelf life of two years, recommended storage conditions for EcoReel are: storage indoors away from direct sunlight within a temperature range of 18° C to 35° C (64° F to 95° F) and relative humidity levels of 35% - 65%.

EcoFlange (1/2 Reel) Part Number Guide						
(Please see combination guide below for details of EcoFlange widths required)						
EcoFlange Part ID	Hub Width mm	Hub Diameter Inches/mm	EcoFlange Diameter Inches/mm	No. of Windows	Quantity per Box	Colour
253001	4	4 / 100	13 / 330	3	50	White
253002	8	4 / 100	13 / 330	3	50	White
253003	16	4 / 100	13 / 330	3	50	White
253004	28	4 / 100	13 / 330	3	25	White

**EcoFlange Combination Guide for EcoReel® Assembly**



Dimensions For Assembled EcoReel®									
(All dimensions in mm)									
Tape Width	A Diameter	B (min)	C	D (min)	N Hub	W1	W2 (max)	W3* (min)	W3* (max)
8	330	1.5	13 +0.5 -0.2	20.2	102 +/- 1mm	8.40 +1.5 -0.0	14.4	7.9	10.9
12	330	1.5	13 +0.5 -0.2	20.2	102 +/- 1mm	12.4 +2.0 -0.0	18.4	11.9	15.4
16	330	1.5	13 +0.5 -0.2	20.2	102 +/-1mm	16.4 +2.0 -0.0	22.4	15.9	19.4
24	330	1.5	13 +0.5 -0.2	20.2	102 +/-1mm	24.4 +2.0 -0.0	30.4	23.9	27.4
32	330	1.5	13 +0.5 -0.2	20.2	102 +/-1mm	32.4 +2.0 -0.0	38.4	31.9	35.4
44	330	1.5	13 +0.5 -0.2	20.2	102 +/-1mm	44.4 +2.0 -0.0	50.4	43.9	47.4
56	330	1.5	13 +0.5 -0.2	20.2	102 +/-1mm	56.4 +2.0 -0.0	62.4	55.9	59.4

**\*Shall accommodate tape without interference**

**All Other Dimensions and Tolerances are Fully Compliant With EIA 481-F**

CUSTOMER SERVICE

Our customer service and technical support teams can assist in all aspects of specifying and sourcing your entire in-house tape & reel material requirements including carrier tape, cover tape, reels & moisture protection products. For further assistance, please contact our Customer Service Department at the email address below.

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