

Materials Datasheet

Antistatic EcoReel® PLUS

PRODUCT DESCRIPTION

Antistatic EcoReel® PLUS by Reel Service Ltd is an eco option reel utilising recycled HIPS material to reduce cost but without compromise.

EcoReel® PLUS provides users with a take up reel manufactured using high impact polystyrene (HIPS) with a minimum of 30% recycled material. ESD protection is achieved through the use of integrated antistatic additive.

Use of regrind HIPS also assists users with ISO 14000 / 14001 compliance.

EcoReel® PLUS incorporates a flange with smaller windows, increased labelling area and increased flange rigidity to provide increased side impact protection for full mechanical & anti-static protection for components during transportation & storage.

EcoReel® PLUS is fully compliant with EIA-481 standard.

Inventory control is easy with EcoReel® PLUS . 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® PLUS 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.

EcoReel® PLUS

BASE MATERIAL

High Impact Recycled Polystyrene
Recycled High Impact Recycled Polystyrene
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® PLUS is available in black with 3 windows per flange.
EcoReel® PLUS provides 3 label areas (120mm x 85mm) per flange.

RECYCLABLE SPACE SAVING DESIGN

The inter-stacking design of EcoReel® PLUS 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® PLUS is available in 13inch (330mm) reel diameter and all tape width increments from 8mm – 56mm.

HUB DIAMETER

EcoReel® PLUS hub diameter is 4" (100mm) .

ASSEMBLY

Two part EcoFlange (reel half) concept enables quick, easy self-assembly of EcoReel® PLUS 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

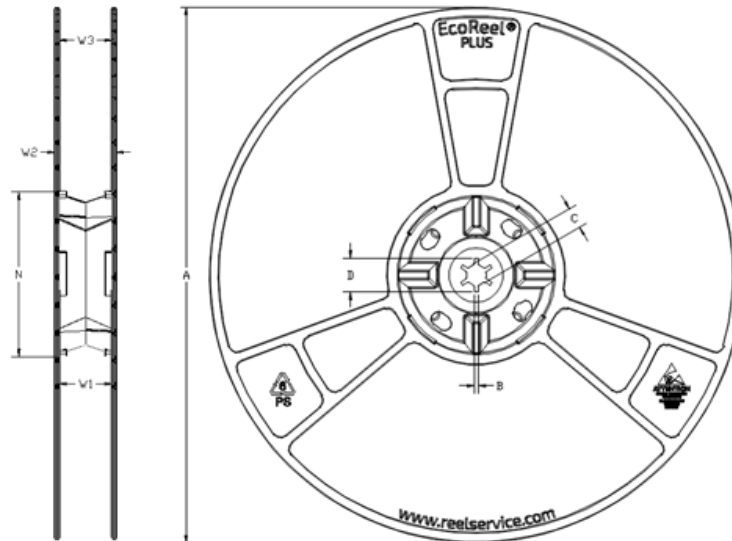
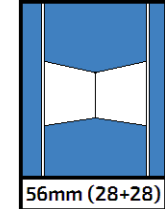
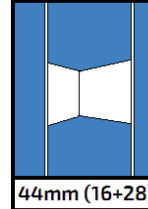
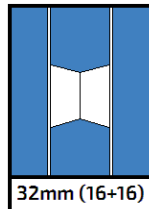
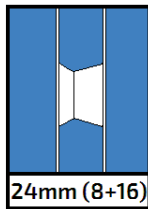
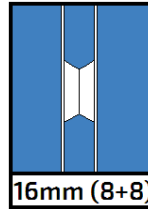
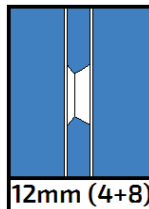
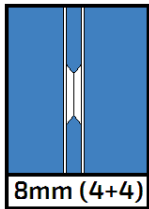
With a shelf life of two years, recommended storage conditions for EcoReel® PLUS are: storage indoors away from direct sunlight within a temperature range of 18° C to 35°C (64°F to 95°F) and relative humidity levels of 35% - 65%.

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
251035	4	4 / 100	13 / 330	3	50	Black
251036	8	4 / 100	13 / 330	3	50	Black
251037	16	4 / 100	13 / 330	3	50	Black
251038	28	4 / 100	13 / 330	3	25	Black

EcoFlange Combination Guide for EcoReel® PLUS Assembly



Dimensions For Assembled EcoReel® PLUS (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 Standard

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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