

B-8342 HALOGEN FREE FLAME RETARDANT HEAT SHRINKABLE TUBING

TDS No. B-8342
 Effective Date: 01/16/2012

Description:

GENERAL

Print Technology: Thermal Heat Transfer (THT)

Materials Type: Polyolefin

RECOMMENDED RIBBONS

Brady Series R6000 (all coloured tubing except black)

Brady Series R7961 (all coloured tubing except black)

Brady Series R4400W (only for black tubing)

APPLICATIONS

B-8342 is flame retardant and heat shrinkable (2:1 shrink ratio) flexible polyolefin sleeves used for wire identification. The product is supplied as continuous roll form in a flattened format designed for use with transfer thermal printers. Available in multiple colours and various sizes (see below table for general guide on tube sizes).

B-8342 is UL recognized as per UL224 VW-1. Refer to UL file# E258328 found under *Certification* section in the website www.ul.com.

B-8342 is RoHS compliant in accordance to the EU Directive 2002/95/EC.

B-8342 is halogen-free* tested (except yellow and red colour) as per IPC-TM-650 standard method.

(*Note: IPC-TM-650 is not a mandatory test method for halogens; it is only one of the method testing for halogens. Depending on the different industry requirements or future legal regulations, specifications for halogen content may differ. Appropriate methods for testing will have to be carried out to confirm if specifications can be met.)

Details:

Tube size f	Before Shrinking f(mm)	Before Shrinking thickness (mm)	After Shrinking thickness (mm)
1	1.5±0.2	0.15±0.05	0.28±0.10
2	2.0±0.2	0.18±0.05	0.32±0.10
3	3.0±0.2	0.18±0.05	0.38±0.10
4	4.0±0.2	0.22±0.05	0.42±0.10
5	5.0±0.2	0.25±0.05	0.5±0.10
6.5	6.5±0.2	0.28±0.05	0.55±0.10
8.5	8.5±0.3	0.28±0.05	0.60±0.10
9.5	9.5±0.3	0.3±0.08	0.60±0.10
11.5	11.5±0.3	0.30±0.08	0.60±0.10
12.5	12.5±0.3	0.30±0.08	0.60±0.10
14.5	14.5±0.3	0.35±0.10	0.65±0.10
17.5	17.5±0.4	0.40±0.12	0.70±0.10
19	19±0.5	0.40±0.15	0.80±0.15
26	26.0±0.5	0.50±0.15	0.90±0.15
36.5	36.5±1.0	0.50±0.15	0.95±0.15
50	50.0 ±1.0	0.50±0.15	1±0.15

Shrink Method: Any industrial grade heat gun may be used to shrink B-8342 Heat Shrinkable Tubing
 Performance properties tested on B-8342 were printed with Series R6000/ R7961 ribbons (for different coloured tubing except black) and R4400W (black tubing) using BP-PR300Plus thermal transfer printer. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environment. Unless noted, results are the same for all ribbons.

PERFORMANCE PROPERTIES	TEST METHODS	AVERAGE RESULTS
High Service Temperature	1000 hrs at 100°C	No significant visible effect
Low Service Temperature	1000 hrs at -40°C	No significant visible effect
Humidity Resistance	1000 hrs at 37°C/ 95% RH	No significant visible effect
		No significant visible effect to print.
UV Light Resistance	1000 hrs exposure to UV (ASTM G154)	No significant to material except red tubing. Severe colour fading was observed for red

		tubing.
Weatherability	1000 hrs in weatherometer (ASTM G155)	No significant visible effect to print. No significant to material except red tubing. Severe colour fading was observed for red tubing.
Abrasion Resistance	Taber Abraser CS-10 wheels, 250g arm 50 and 100 cycles	No significant print removal at 50 cycles. Slight print removal at 100 cycles but legibility of text remained.

Trademarks:

ASTM: American Society for Testing and Materials (U.S.A.)

Note: All values shown are averages and should not be used for specification purposes.

Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

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