

APPLICATION

Continuous ambient air monitoring of SPM / PM2.5

Applicable to beta-attenuation particulate monitors such as BAM-1020 and E-BAM. Standard 30 mm tape on a 40.5 mm core, in 60-day and 90-day lengths and in standard and high-strength grades.

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CODES

01 Product line-up

All codes: MADE IN JAPAN

Code	Name	Tape size	Core inner dia.	Grade
GF-21M	60 Day Supply	30 ±0.5 mm × 21 +2/-0 m	40.5 ±0.5 mm	Standard
GF-31M	90 Day Supply	30 ±0.5 mm × 31 +2/-0 m	40.5 ±0.5 mm	Standard
GF-21MS	60 Day Supply High-Strength	30 ±0.5 mm × 21 +2/-0 m	40.5 ±0.5 mm	High-strength
GF-31MS	90 Day Supply High-Strength	30 ±0.5 mm × 31 +2/-0 m	40.5 ±0.5 mm	High-strength

Length is stated as nominal with tolerance: 21 +2/-0 m means 21 m minimum, 23 m maximum. A starter tab on the outer wrap allows the roll to be drawn out easily when loading.

02 Specification

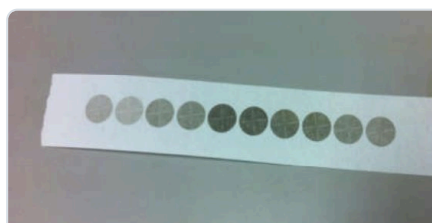
Criterion values common to all four codes

Testing item	Unit	Criterion value	GF-31MS result	Test method
Basis weight	g/m ²	49 ±7	44	JIS P 8124
Thickness	mm	0.14 ±0.03	0.15	JIS P 8118, micrometer
Pressure drop	kPa	≤ 20.0	16.8	Differential pressure at face velocity 2.4 m/s
0.3 μm PAO collection efficiency	%	≥ 99.9	99.948	Polyalphaolefin particles, face velocity 0.05 m/s
Tensile strength	N	≥ 7.8	16.3	JIS P 8113, 15 mm width, machine direction
Water repellency	kPa	≥ 4.9	9.8	Hydrostatic pressure at water breakthrough

Material: glass fiber with binder (acrylic, polyurethane and silicone resin). Inspection is carried out on every resin-processing lot. Lot-specific inspection certificates are available on request.



Retail boxes — one roll per box, 60 boxes per carton.



Tape after sampling. Each spot is one measurement cycle.



Starter tab makes the roll easy to draw out when loading.

HARIO SCIENCE CO., LTD.

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MADE IN JAPAN

HIGH-STRENGTH GRADE

Built for runs you cannot interrupt

A tape break in mid-cycle costs the data for that cycle and a site visit to recover. The high-strength grade raises tensile strength while leaving basis weight, pressure drop and collection efficiency within the same criterion values as the standard grade.

16.3N — MEASURED
(CRITERION ≥ 7.8 N)**03 Why the high-strength grade**

- More than double the criterion tensile strength, giving margin against accidental tension from the transport mechanism.
- No change to collection performance — the same criterion values apply to both grades.
- The benefit grows with the cost of a site visit: unattended stations, mountain or coastal sites, and networks maintained by a small team.
- Available in both cycle lengths, so an existing 60-day or 90-day operation can switch without changing the schedule.



High-strength grade under hand tension.

04 Packaging, lot number and ordering

Packaging	One roll sealed in a polyethylene bag and placed in a retail box. 60 retail boxes per shipping carton.
Labelling	Labels are applied to both the retail box and the shipping carton. Plain or customer-specified labelling can be supplied on request.
Lot number	Eight digits — year (last digit) + month (2) + day (2) + control number (3). One processing unit is one lot.
Documentation	Inspection certificates and Safety Data Sheets are available in English. Please state which documents your procurement or customs process requires.
Export	Available. English invoices, packing lists and shipping documents are issued as required.
Samples	Sample rolls for evaluation can be arranged. Please tell us the monitor model and the code you wish to evaluate.

05 How to order

Send us the four items below and we will confirm the matching code, quote, and advise on lead time.

#	What to tell us	Why it matters
1	The monitor model you operate	Confirms dimensional and mechanical fit.
2	The part number and dimensions of the tape you use now	Lets us cross-check against our codes before you order.
3	Annual volume and number of stations	Determines packing efficiency and freight.
4	Destination country and required documents	Determines shipping route and paperwork.

Enquiries in English: www.harioscience.com/en/contact/ — we reply in English.

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GLASS FIBER FILTER TAPE ROLL

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