

Geometric solids with nets

LABOTRIX GEOBODY M2

PRODUCT PASSPORT

Kyiv

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1. General Information about the Product

- 1.1. **Product name** — Models of geometric bodies with sweep.
- 1.2. **Trademark** — Labotrix.
- 1.3. **Model** — Geobody M2; full trade designation — LABOTRIX GEOBODY M2.
- 1.4. **Manufacturer** — Labotrix Group Limited, China.
- 1.5. **Intended use:** a demonstration set of three-dimensional models of geometric bodies for mathematics and geometry classes in educational institutions. The set allows developing students' spatial awareness, showing the relationship between a solid figure and its planar sweep, and measuring and calculating surface areas and volumes. The models are suitable for frontal demonstration in front of the class, group work and individual tasks at the level of grades 5-11.
- 1.6. **Design features:** each model is made of a transparent material, with a colored sweep built inside it, folding along fold lines. The sweep can be taken out and unfolded on a flat surface, showing the relationship between the body and its surface. The transparency of the walls allows seeing both visible and hidden edges and faces of the body from any angle.

2. Technical Specifications

- Brand — Labotrix
- Model — Geobody M2
- SKU — LTX-GEOBODY-M2
- Product type — a set of demonstration models of geometric bodies
- Material of the geometric bodies — transparent impact-resistant (non-brittle) polymer material
- Material of the sweeps — colored, flexible, non-brittle material, foldable along fold lines
- Design — the sweep is built into each body and is visible through the transparent walls
- Model dimensions — depending on the set's version, approximately 80 mm in height
- Visibility of elements — the shape of the body and the color of the sweep placed inside are distinguishable from a distance of 5 meters from the last desk; small details of the sweep (fold lines, face labels) are examined by students up close, while working with the model in their hands
- Number of geometric bodies in the set — 8 (cube, rectangular parallelepiped, triangular prism, hexagonal prism, quadrangular pyramid, triangular pyramid, cylinder, cone, sphere and others depending on the version)
- Operating conditions — premises of an educational institution, air temperature from +5 to +40 °C, relative humidity from 40 to 60 % without condensate
- Power — not required
- Language of marking and operating documentation — Ukrainian
- Product marking — trademark, model and a space for the inventory number

- Packaging — an individual corrugated cardboard box with fixation for each model
- Documentation supplied — product passport with warranty card and operating manual
- Ready-to-use condition — supplied fully assembled, the sweeps are already placed inside the bodies, no additional assembly is required
- Organization of work — suitable for frontal demonstration to the class and for distribution to groups or to students' workstations
- Image durability — the color print on the sweeps does not wear off during careful folding and unfolding
- Service life (year) — 5
- Warranty period (month) — 12

3. Package Contents

- Models of geometric bodies (cube, prisms, pyramids, cylinder, cone, sphere and others) — from 8 pcs, exact quantity and composition according to the packing list
- Colored sweeps built into each model — inside
- Product Passport and Warranty Card — 1 pcs
- Individual transport packaging — 1 pcs

The sweep can only be removed and unfolded in a cold state; after unpacking, hot models are recommended to be kept at room temperature for a few hours before first use.

4. Safety Precautions

4.1. General requirements

- Before first use, carefully read this passport. At the educational institution, work with the set is organized and supervised by the teacher.
- Inspect all models for cracks, chips and sharp edges; models with damage are not allowed for use.
- Students work with the set on a table or at the classroom board, without raising the models above their heads and without knocking them against other objects.
- When unfolding the sweep, point out the fold lines to the children and make sure the folding follows exactly those lines, not freely.

4.2. Stability and mechanical safety

- Do not throw the models, do not fall on them, and do not use them as levers or supports.
- A model fixed on a table or board must not be placed at the edge or on an overhanging part of it, in order to avoid falling.
- Do not place heavy objects on the models and do not stack them on one another without spacers: this damages the transparent walls and deforms the sweep.
- When working near the classroom board, make sure there are no students nearby who could be struck by a falling model.

4.3. Protection of materials

- Do not use abrasive powders, metal brushes or aggressive chemical agents for cleaning: they cloud the transparency and damage the paint of the sweep.
- Do not heat the models, do not leave them in direct sunlight or near heating appliances: the polymer softens and deforms.
- Do not immerse the models in water and do not wash them under running water.

4.4. It is strictly prohibited

- Disassemble, saw or drill the models and attempt to change their geometry.
- Write on the models with ink, paint or markers: it can be impossible to wash off.
- Use the models as toys outside of educational activities.
- Leave the set at the edge of a table, in conditions of high humidity, dirt and dust.

5. Preparation for Use

- 5.1. Unpack the set on a clean table and check the number of models against the packing list.
- 5.2. Inspect each model, make sure the transparent walls are clean and free of cracks, and the sweep is visible and accessible through the detachable unit.
- 5.3. Practice on one or two models: take apart the detachable unit, carefully remove the sweep and unfold it on the table, then fold it back.
- 5.4. If necessary, wipe the transparent walls with a soft cloth slightly dampened with water and a neutral detergent, and wipe dry.
- 5.5. Prepare auxiliary supplies: a ruler, a measuring tape, a calculator, sheets of paper and pencils for notes.
- 5.6. Lay out the models in the order of the planned demonstration.

6. Operating Procedure

6.1. Demonstration of the body

- Turn the model in your hands, examining it from different sides; all faces and edges are visible through the transparent walls.
- Name the body and its elements: faces, edges, vertices (for polyhedra); bases, lateral surface, axis (for solids of revolution).
- Give students the opportunity to count faces, edges and vertices, relying on visibility through the transparency.

6.2. Removing and unfolding the sweep

- First locate the detachable unit on the model — it may be a removable base, a lid or an opening.
- Carefully remove the sweep without excessive force; do not catch it on sharp objects.
- Unfold the sweep on the table along the fold lines, gradually lowering the parts into one plane.

6.3. Working with the sweep

- Measure the dimensions of the sweep's faces using a ruler; calculate the areas of individual figures.
- Add up the areas and compare the result with the surface area formula of the body.
- Record in a notebook which flat figures make up the surface: for a cube — squares, for a cylinder — a rectangle and circles, etc.

6.4. Folding the sweep back

- Fold the sweep back in reverse order along the same fold lines, making sure it fits into the body without distortion.
- Insert the sweep into the body and close the detachable unit, making sure it has locked into place.

6.5. Finishing the work

- Check that all inserts have been returned to "their own" bodies; the sweep from one model does not fit another.
- Put the models back in their storage place; it is recommended to keep the packaging.

7. Care, Maintenance and Troubleshooting

7.1. Cleaning

- Wipe the transparent walls with a soft, lint-free cloth dampened with warm water containing a small amount of neutral detergent.
- Wipe dry immediately after wet cleaning.
- Do not use alcohol, acetone, glass solvents and abrasive pastes.
- Clean the colored sweep only with a dry cloth.

7.2. Periodic inspection

- Monthly check the condition of the wall transparency and the visibility of the sweep; in case of fogging, wipe and dry.
- Check the condition of the detachable units: the insert should come out and go back in easily.
- Repair of damaged models is not performed at the educational institution; contact an authorized service center.

7.3. Possible malfunctions and methods of their elimination

Symptom	Possible cause	User actions
The sweep does not come out	The detachable unit is not fully closed; the insert is fitted askew	Fully open the unit, carefully straighten out the sweep
The sweep does not fold back	The sweep is folded not along the fold lines	Unfold again and fold exactly along the lines
The walls have become cloudy	Cleaning with an aggressive agent or accumulation of condensate	Wipe with a soft cloth and a neutral agent
Cracks are visible on the walls	Dropping of the model or impact	Stop use; the model is not repairable

Symptom	Possible cause	User actions
The sweep is not clearly visible	Dirty walls	Clean the transparent walls with a mild agent
The model was stored at a low temperature	Cold makes the polymer brittle	Keep the model at room temperature for 1-2 hours before use

8. Storage and Transportation Conditions

- Store the set in a dry, enclosed room at a temperature of not less than +5 and not more than +40 °C and relative humidity up to 80% without condensation.
- Protect from direct sunlight, moisture and the action of aggressive substances; do not place near heating appliances.
- Store the models separately, without stacking them on top of one another without spacers, in the factory packaging or a closed cabinet.
- Do not stack other objects on the models; it is recommended to leave the sweep inside the body and not keep it unfolded for long.
- Transport the set in its original rigid packaging, avoiding impacts, vibrations and tipping over.
- The storage period before commissioning is unlimited provided that the stated requirements are observed.

9. Warranty Obligations

- 9.1. The warranty period of operation of the product is 12 months from the date of sale specified in the warranty card.
- 9.2. The manufacturer guarantees that the product conforms to the declared technical specifications provided that the transportation, storage and operating rules set out in this passport are observed.
- 9.3. During the warranty period, defects of the product that have arisen through the fault of the manufacturer are remedied free of charge. The method of remedy (repair, replacement of a component or replacement of the product) is determined by the service center.
- 9.4. Warranty service is provided on presentation of a correctly and completely filled-in warranty card and of a document confirming the fact and the date of purchase.
- 9.5. The warranty does not cover cases where the malfunction is caused by:
 - mechanical damage, in particular cracks, chips and deformation of the housing and of the components of the product;
 - violation of the operating, storage or transportation rules set out in this passport;
 - ingress of liquid or foreign objects into the product, and also the action of insects and animals;
 - independent disassembly, repair or modification of the product, in particular repair at unauthorized workshops;
 - use of the product other than for its intended purpose;
 - force majeure circumstances (fire, flood, earthquake, etc.).

9.6. The warranty does not cover the natural wear of the coating and of the appearance of the product, nor consumables.

10. Product Disposal

- The product is not electrical or electronic equipment, therefore the marking in the form of a crossed-out container does not apply to it.
- After the end of the service life, the product is disposed of according to the rules established at the institution that operated it, with prior separation by materials.
- Hand over the packaging elements (cardboard, polymer materials) to the corresponding streams of recyclable materials.

Contacts

LABOTRIX GROUP LIMITED

Room 910, Isteeasia 1 No. 18 Fu'an Blvd, Pinghu Subdistrict,
Longgang District, Shenzhen City,
Guangdong Province, China 518111
Phone: +86 13925261264
E-mail: salesmanager@labotrix.com
Website: <https://labotrix.com/>

Address in Ukrainian:

LABOTRIX GROUP LIMITED

Room 910, Istilazia 1, Fuan Boulevard No. 18,
Pinghu Subdistrict, Longgang District,
Shenzhen, Guangdong Province, China 518111
Telephone: +86 13925261264
E-mail: salesmanager@labotrix.com
Website: <https://labotrix.com/>

Conditions of use and storage of the product

The product is intended for educational work in general secondary education institutions and is used only under the control and supervision of a teaching staff member; the recommended age of students — from 10 years, that is, students of grade 5 and of higher grades. Keep the product in a dry, clean and ventilated room at a temperature from +5 to +40 °C and relative air humidity up to 80 % without condensation, separately from heat sources and out of direct sunlight, moisture and dust. Use the product exclusively for its intended purpose and do not allow drops, impacts or other mechanical damage. If you notice damage, a crack or any malfunction, stop working with the product immediately and inform the teacher or the responsible person of the educational institution; repairing the product on your own is prohibited.

WARRANTY CARD

Name:	Geometric solids with nets
Product model:	LABOTRIX GEOBODY M2
Serial number:	
Date of sale:	
Warranty period:	12 months from the date of sale
Trading organization:	
Signature of the seller:	

The goods have been received in working order, without visible damage, complete, and have been checked in my presence. I have no claims regarding the quality of the goods; I have read and agree to the operating and warranty service conditions.

Full name of the buyer _____

Telephone of the buyer _____ Signature of the buyer _____

Dear Customer!

Thank you for choosing Labotrix products. After-sales service of this product is provided in accordance with the regulations of the company and the legislation of the country of sale. So that we can serve you quickly and without unnecessary formalities, check that this warranty card is filled in correctly at the moment of purchase and keep it together with the payment document throughout the entire warranty period. When applying for repair, hand the product over to the seller or to the service center together with the filled-in card.

Procedure for applying

1. The right to free warranty service of the product is valid for 12 months from the date of sale specified in the warranty card. Within this period, components that have failed because of a manufacturing defect are repaired or replaced at no cost to the buyer.
2. Before applying, make sure that the malfunction is not caused by the reasons listed in section 9 of this passport and, if possible, use the table of possible malfunctions in subsection 7.3.
3. After the end of the 12-month warranty period, repairs are performed on a paid basis; the cost of the work and of the spare parts is determined depending on the nature of the malfunction.

Grounds for refusal of warranty service

The company reserves the right to refuse free service or to perform the work on a paid basis if at least one of the following circumstances is established:

- absence of the warranty card, its incomplete or corrected completion, and also the absence of a document confirming the purchase;
- non-conformity of the serial number of the product with the number specified in the card, or damage to the factory marking;
- traces of independent disassembly, repair or modification of the product;
- damage caused by violation of the operating rules, connection to an unsuitable power source or external mechanical impact;
- damage as a result of force majeure circumstances.

Service Records

Date of entry	Description of the malfunction	Work performed	Position, signature, full name of the responsible person