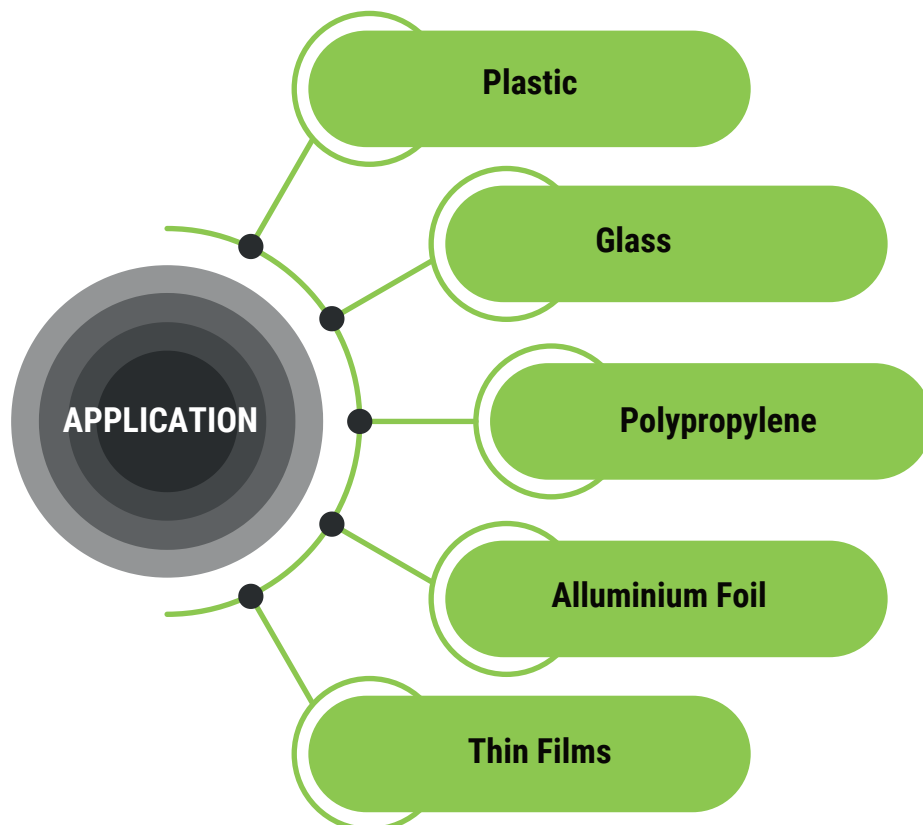


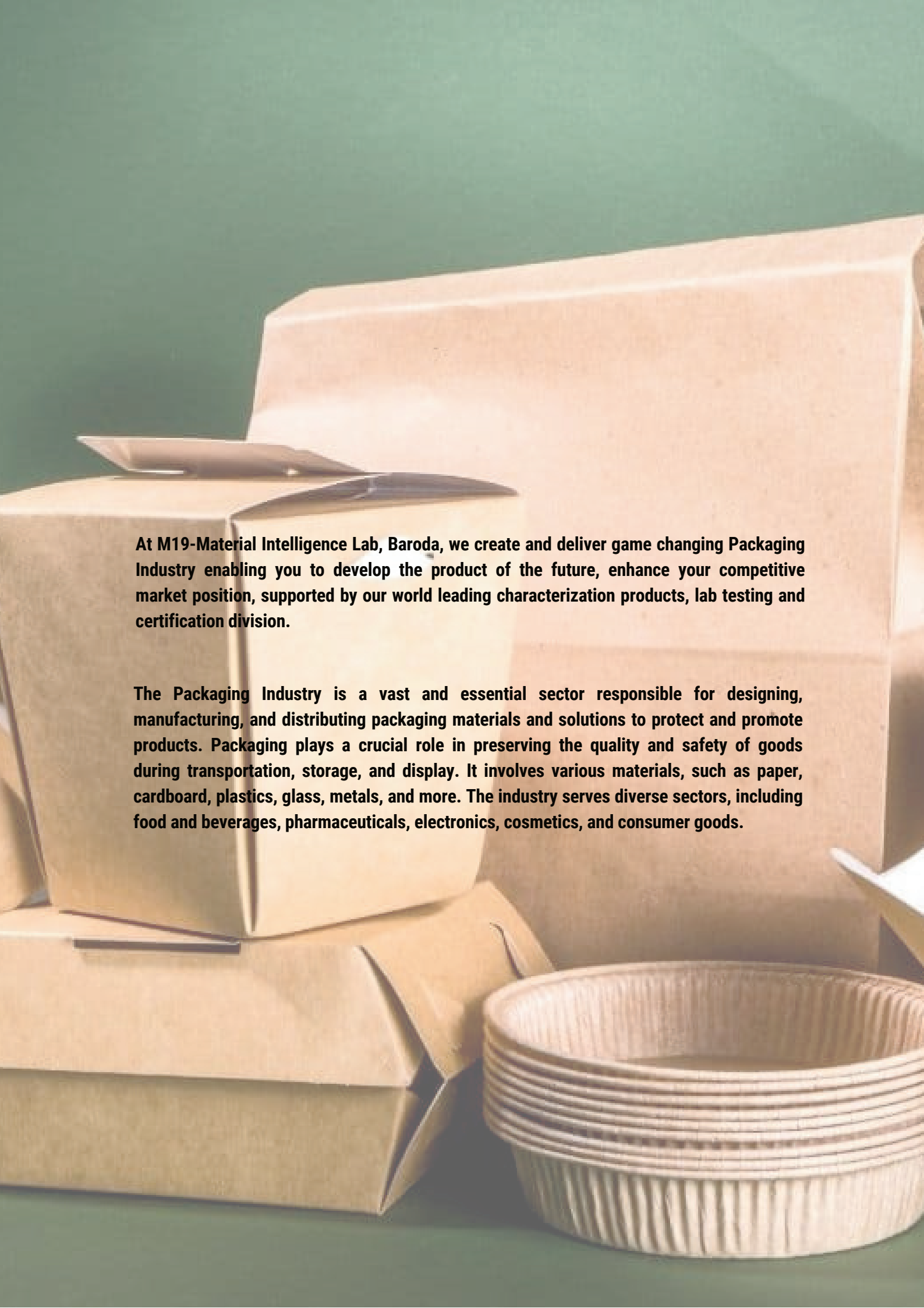
A collection of brown paper packaging items including stacked cups, a plate, a fork, and a paper bag.

**ADVANCED MATERIAL CHARACTERIZATION FOR
PACKAGING**

HOW WE HELP?

- Design & Manufacture Lab Instruments
- Lab Testing Services
- Identify & Rectify Failures
- Improve Product Performance
- Ensure Your QA/QC Requirements





At M19-Material Intelligence Lab, Baroda, we create and deliver game changing Packaging Industry enabling you to develop the product of the future, enhance your competitive market position, supported by our world leading characterization products, lab testing and certification division.





The Packaging Industry is a vast and essential sector responsible for designing, manufacturing, and distributing packaging materials and solutions to protect and promote products. Packaging plays a crucial role in preserving the quality and safety of goods during transportation, storage, and display. It involves various materials, such as paper, cardboard, plastics, glass, metals, and more. The industry serves diverse sectors, including food and beverages, pharmaceuticals, electronics, cosmetics, and consumer goods.

PRODUCT PORTFOLIO

GAS PERMEABILITY ANALYZER

The GP-100 device is used to determine the permeability of porous media. The steady state flow of gas such as air/nitrogen is measured using an accurate mass flow meter in relation to time and pressure differential. Gas Permeability can be calculated in Darcy, Frazier or Gurley units. GP-100 is user-friendly, features non-destructive testing that is perfect both R&D and QA/QC purposes.







-  Standard : ASTM D737-18
-  Test Range : 1×10-50 Darcy
-  Test Duration : 10 minutes
-  Precision : 0.15% of reading

Application: Material Selection, Efficiency Testing, Filter Design, Regulatory Compliance, HVAC, HEPA, Quality Control

MOISTURE VAPOR TRANSMISSION ANALYZER

MVTR - 50 equipment utilizes gravimetric analysis following the ASTM E96 upright cup method to measure the water vapor transmission rate of materials. The MVTR is determined by evaluating the gain in water vapor mass across the specimen over time. From this MVTR value, permeance and permeability are calculated. The system continuously monitors and records the temperature and relative humidity of the chamber and cell. To compute the water vapor mass gained across the specimen, the change in relative humidity in the top cell is measured. The data points, representing the water vapor mass gained over time, are recorded and plotted. The material's MVTR is determined based on the collected data points.



-  Standard : ASTM E96
-  Test Range : 0.1-9000g/m²/ day
-  Test Duration : 60 minutes
-  Precision : 0.1%

Application: Material Selection, Efficiency Testing, Filter Design, Regulatory Compliance, HVAC, HEPA, Quality Control

EASY 3- STEP PROCESS TO ACCESS M19 TESTING SERVICES

Step 1: Sample Preparation

1.1 Select the Sample: Choose representative sample from your batch for testing.

1.2 Package Your Sample: Pack your sample securely to prevent any damage during transit. Each sample should be individually wrapped and labeled to ensure they can be easily identified.

Make sure to include the Sample Specification Sheet detailing important information, such as the type of fabric, manufacturer, model, and any specific tests requested.

Step 2: Sample Dispatch

2.1 Select a Reputable Courier: Choose a reliable courier service that offers tracking and ensures your package will arrive safely at the lab.

2.2 Address and Dispatch: Clearly write the laboratory's address on your package and dispatch it via your chosen courier.

M19 Lab

*Atten: Dr. A.S Dey
(Porelab Scientific Pvt Ltd)
801/802 K10 Grand,
Sarabhai Campus,
Vadodara, Gujarat-390007
Ph- +91 8140308833*

2.3 Share Tracking Information: Share the courier tracking number with the lab so they can anticipate the arrival of your samples.

Step 3: Lab Confirmation and Follow-up

3.1 Arrival Confirmation: Upon receipt of your samples, M19 lab team shall confirm their arrival and condition.

3.2 Lab Testing: The lab will then perform the requested tests. The timeline for this can vary depending on the complexity and volume of the tests.

3.3 Results and Report: Once testing is complete, M19 lab team will compile a detailed report and share the results with you. This may be done via email, through a client portal, or mailed as a hard copy, depending on the lab's practices and your preferences.

CLIENTS





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