

# IEC 62552

## Freezing Load Test Package

Standard Test Package and Test Package M



### APPLICABLE STANDARD

IEC 62552 / ISO 15502

### PRODUCT MODEL

KP-62552

### PACKAGE TYPE

Standard Package / Test  
Package M

### CORE APPLICATION

Frozen food load simulation

The IEC 62552 Freezing Load Test Package creates repeatable thermal load conditions for household refrigerator and freezer testing. Standardized packages reduce variation caused by real food samples and support consistent performance, temperature and energy-consumption test preparation.

Designed for appliance manufacturers, laboratories, certification teams and quality-control departments.

## Product Overview

This standardized test load replaces real food during controlled refrigerator and freezer testing. By using defined package dimensions, mass, temperature type and sensor placement, laboratories can improve repeatability between test runs and comparisons between appliance models.

### Key Product Features

- 1 Standardized load simulation for frozen food storage compartments
- 2 Configurations for IEC 62552 / ISO 15502 related methods
- 3 Standard packages and 500 g Test Package M available
- 4 Thermocouple positioned at the geometric center of Test Package M
- 5 -1°C freezing-point package; optional -5°C configuration
- 6 Multiple standard sizes and customized sets available

### Test Package M



#### NOMINAL SIZE

50 × 100 × 100 mm

#### SIZE TOLERANCE

±2 mm

#### NOMINAL WEIGHT

500 g

#### SENSOR LOCATION

Geometric center

#### WEIGHT TOLERANCE

±2%

## Product Views



Common package configurations



Side-view package construction



Close-up product label

## Technical Specifications

| Parameter                | Specification                                                     |
|--------------------------|-------------------------------------------------------------------|
| Product name             | IEC 62552 Freezing Load Test Package                              |
| Model                    | KP-62552                                                          |
| Applicable standards     | IEC 62552 / ISO 15502; related EN and GB/T applications           |
| Product type             | Standard test package / Test Package M                            |
| Main application         | Refrigerator and freezer performance testing                      |
| Material                 | Hydroxyethyl Methyl Cellulose                                     |
| Package freezing point   | -1°C standard; -5°C optional                                      |
| Test Package M           | 50 × 100 × 100 mm, 500 g                                          |
| Thermocouple position    | Geometric center of Test Package M                                |
| M package size tolerance | ±2 mm                                                             |
| Package weight tolerance | ±2%                                                               |
| Customization            | Package size, quantity, temperature type and sensor configuration |

## Common Package Sizes

The package set should be selected according to the exact test arrangement and loading plan.

| Dimensions (mm) | Nominal Weight | Typical Role          |
|-----------------|----------------|-----------------------|
| 25 × 50 × 100   | 125 g          | Small load unit       |
| 50 × 50 × 100   | 250 g          | Medium load unit      |
| 25 × 100 × 100  | 250 g          | Flat load unit        |
| 25 × 100 × 200  | 500 g          | Long 500 g unit       |
| 50 × 100 × 100  | 500 g          | Test Package M format |
| 50 × 100 × 200  | 1000 g         | Large load unit       |

## Application and Selection Guide

01

### General Load Simulation

Confirm the required dimensions, weight, quantity and loading arrangement for the refrigerator or freezer compartment.

02

### Temperature Measurement

Select Test Package M when internal package temperature must be measured with a thermocouple at the geometric center.

03

### Special Temperature Type

Confirm whether the standard -1°C package or the optional -5°C package is required by the test method.

### Information Required for Quotation

- |                                                                                               |                                                                                         |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Applicable standard and edition                           | <input checked="" type="checkbox"/> Thermocouple wire or embedded sensor requirement    |
| <input checked="" type="checkbox"/> Required package type: standard package or Test Package M | <input checked="" type="checkbox"/> Refrigerator / freezer test application             |
| <input checked="" type="checkbox"/> Required dimensions, nominal weight and quantity          | <input checked="" type="checkbox"/> Required documentation and target delivery schedule |
| <input checked="" type="checkbox"/> Required freezing point: -1°C or -5°C                     |                                                                                         |

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