High-Quality Pharmaceutical Plastic Packaging and Systems

PET / Liquid & Solid

www.gerresheimer.com
Gerresheimer is a leading global partner to the pharma and healthcare industry. With our specialty glass and plastic products, we contribute to health and well-being. We have worldwide operations and our 11,000 employees manufacture our products in local markets, close to our customers. With over 40 plants in Europe, North America, South America and Asia, we generate revenues of more than EUR 1.2 billion. Our comprehensive product portfolio includes pharmaceutical packaging and products for the safe, simple administration of medicines. Insulin pens, inhalers, prefilla ble syringes, injection vials, ampoules, bottles and containers for liquid and solid medicines with closure and safety systems as well as packaging for the cosmetics industry.
Gerresheimer Plastic Packaging Solutions
Intelligent products for diverse pharmaceutical applications

Gerresheimer Plastic Packaging specializes in the widely varied spectrum of pharmaceutical plastic packaging within solid, liquid and ophthalmic applications, plastic vials and plastic bottles for personal care. Our leading brands Duma®, Dudek™ and Triveni for solid dosage, edp-branded PET bottles for liquid dosage and our ophthalmic products form part of a comprehensive and innovative product range. Our plastic vials branded MultiShell® are specially designed for sensitive parenteral drug formulations.

Our standard range includes a wide choice of different types of containers and closures, PET bottles, eye droppers, nasal sprays, nebulisers as well as numerous customized developments.

Using our ideas and experience to produce intelligent, increasingly safe and user-friendly packaging solutions has enabled us to become an innovative partner to the global pharmaceutical industry.

We know, understand and reinforce our customers business.
Specialist and quality leader in primary plastic packaging

Our manufacturing operations use state-of-the-art technology and apply the most rigorous quality and hygiene standards. They cover all production technologies from injection moulding and injection blow moulding to blow moulding processes. The majority of our production operations are carried out in modern classified clean-rooms or in clean conditions. All plants apply the rules of Good Manufacturing Practice (GMP) and are certified in accordance with ISO standards.

- Solution providing
- Good Manufacturing Practice (GMP)
- ISO certifications (ISO 9001, ISO 15378, ISO 14001)

- Automated in-line controls
- Vision-based inspection system
- Class 7 (10,000) + class 8 (100,000) clean-rooms

Strong regulatory approach

We ensure full conformity of our products with the European pharmacopoeia, the United States pharmacopeia and the requirements for FDA registration with a Drug Master File as the standard. Knowing the extensive requirements of our customers we focus on providing a high level of documentation with our products.

- High level of documentation and registration
- Standard product database
- FDA and world-wide registration of all products

- US and Canada Drug Master File
- Product registrations in Russia, China and the Ukraine
- Food approval

Strong quality culture

A strong quality culture supports our efforts to deliver excellent quality. The culture is defined by our shared beliefs, values and behaviour patterns.

- Quality attitude and team work
- Continuous improvements
- Systematic problem solving

- Quality by design
- Stable, robust, reliable and validated processes
- Risk-based approach
Innovative and trendsetting

Dedication to technological advancement and product development enable Gerresheimer to set benchmarks in packaging design. We offer our pharmaceutical customers the very latest developments in packaging systems.

- Longer shelf-life requirements for sensitive pharmaceutical formulations
- Higher compliance standards
- Child-resistant and senior-friendly closure systems
- Total solution provider
- Barrier packaging
- Unique, customized solutions for niche market segments

Gerresheimer Plastic Packaging’s most recent innovations in PET are Duma® PET and ST600/1000.

**Duma® PET**

The well-known Duma® tablet containers for the pharmaceutical packaging market have so far been produced in HDPE. To complete the Duma® range, Gerresheimer now offers the same containers in PET. The Duma® PET containers are compliant with the US and European food and drug regulations and are registered in the Gerresheimer Zaragoza Drug Master File (DMF) with its other PF, ST and LP pharmaceutical ranges.

- Available in sizes 100, 125 and 150 ml
- Handy Cap easy-open system
- Containers and caps available in a variety of different colours

**ST600 / 1000**

Two new bottles have been added to the PET ST range with a PP28 mm neck and in the sizes of 600 ml and 1,000 ml.

This now enables us to supply a range of standard PET pharmaceutical bottles for all applications in sizes from 10 ml to 1,000 ml.

- PET syrup bottle
- Available in a variety of different colours
- PP28 neck
- Can be supplied with cap and measuring cup
PET / Liquid & Solid

We offer a comprehensive range of edp-branded PET bottles for liquids and closures in HDPE and PP for different applications.

All our bottles can be supplied with caps, reducers and other accessories. Some are optionally available with a measuring cup that has a 2.5 to 10 ml scale or a measuring cup with CE mark and a 5 to 20 ml scale.

Some of our products are even compatible with glass accessories/bottles.

You can opt for one of the products in the standard range or design a product customized to your needs and requirements with our R&D team.

- PET bottles for liquid – EDP brand
- PET containers for solid – Duma® PET
- PET bottles for oral care
- Caps and measuring cups for PP18 neck, PP28 neck & Duma® PET
- Customized shapes
- Different colours available
- PP18 and PP28 caps compatible with glass, PE & PP solutions
- UV filter
- FDA registered, DMF type III, DMF no. 22946, US Drug Master File (DMF)
## Content

### Liquid

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<thead>
<tr>
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### Accessories

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- Standard and custom molding
PET packaging for liquid

**SPECIFICATIONS**

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- Material: bottle PET, tamper-evident cap PP
- Can be supplied with other caps and reducers
- Bottles available in different colours
PET packaging for liquid

**SPECIFICATIONS**

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- Material: bottle PET, tamper-evident cap PP, measuring cup PP
- Can be supplied with other caps and reducers
- Measuring cup can be supplied with the scale from 5 ml to 20 ml in natural and white colour with CE mark
- Bottles available in different colours
PET packaging for liquid

SPECIFICATIONS

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- Material: bottle PET, tamper-evident cap PP, measuring cup PP
- Can be supplied with other caps and reducers
- Measuring cup can be supplied with the scale from 5 ml to 20 ml in natural and white colour with CE mark
- Bottles available in different colours
- Some bottle sizes are available in HDPE
PET packaging for liquid

SPECIFICATIONS

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- Material: bottle PET, tamper-evident cap PP, measuring cup PP
- Can be supplied with other caps and reducers
- Measuring cup can be supplied with the scale from 5 ml to 20 ml in natural and white colour with CE mark
- Bottles available in different colours
PET packaging for liquid

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- Material: bottle PET, tamper-evident screw cap PE, measuring cup PP
- Bottles available in amber, white, colour
- Measuring cup with scale available from 2,5 ml to 10 ml
- Suited to standard filling and packaging equipment
PET packaging for solid

**SPECIFICATIONS**

- **DUMAPET 100 17**
  - ref: 1036
  - ml: 100
  - mm: 45,5
  - mm: 89,5
  - Label: 33
  - mm: 54,0
  - int. Des.*: 4015

- **DUMAPET 125 20**
  - ref: 1037
  - ml: 125
  - mm: 48,7
  - mm: 96,5
  - Label: 33
  - mm: 58,5
  - int. Des.*: 4015

- **DUMAPET 150 20**
  - ref: 1038
  - ml: 150
  - mm: 51,4
  - mm: 100,0
  - Label: 33
  - mm: 61,5
  - int. Des.*: 4015

- Material: bottle PET, cap LDPE
- Bottles available in different colours
- Snap lock system
- Handy cap easy-open system
- Tamper-evident
- Available with integrated desiccant 4 g
- Caps available in different colours
PET packaging for oral care

SPECIFICATIONS

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- PET bottles
- Can be supplied with caps
PET packaging for oral care

Mouthwash

SPECIFICATIONS

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- PET bottles
- Can be supplied with caps
Accessories for PET packaging

Complements

**PP18**
- Material: tamper-evident cap PP
- Suitable for ST bottles PP18 neck (see page 10)
- Ref 10088 on page 10 corresponds to PP18 cap

**PP28 | MEASURING CUP**
- Material: tamper-evident cap PP, measuring cup PP
- Suitable for ST, PF, LP bottles PP28 neck
  (see page 11, 12 and 13)
- Measuring cup from 5 ml to 20 ml with CE mark available
  in white and clear
- Ref 10089 on page 11, 12 and 13 corresponds to PP28 cap
- Ref 10090 on page 11, 12 and 13 corresponds to PP28
  measuring cup

**DUMA® HANDY CAP**
- Material: cap LDPE
- Suitable for Duma® PET containers (see page 15)
- Snap lock system
- Handy Cap easy-open system
- Tamper-evident
- Available with integrated desiccant 4 g
- Caps available in different colours
- Ref 4015 on page 15 corresponds to Duma® Handy Cap

**PL BOTTLES PP28 NECK**
- Material: tamper-evident screw cap PE, measuring cup PP
- Suitable for PL bottles PP28 neck (see page 14)
- Ref 15128 on page 14 corresponds to the cap
- Ref 41010 on page 14 corresponds to the measuring cup
Pharmaceutical Plastic Packaging

Standard and custom molding

Gerresheimer Plastic Packaging offers unique diversity even in the standard range and we are happy to develop products for individual needs and requirements. Our machines give us maximum flexibility and allow us to adapt easily to any size of product series.

We cooperate with experienced coloring partners and we have the capability to develop specific master batches within short notice for pharma and para-pharmacy products.

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Pharmaceutical Plastic Packaging and Systems for South America is to be found in a separate catalogue.

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