



GEVACRIL

○ ● ■ Cast and Extruded Acrylic Tubes, Rods, Bars, Balls ■ ● ○

Quality description for CAST ACRYLIC BALLS¹

Contents

1 MATERIAL FEATURES	2
2 QUALITY DESCRIPTION	2
2.1 <i>Optical quality</i>	2
2.2 <i>Tolerances</i>	2
2.3 <i>Delivery conditions</i>	3
2.3.1 <i>Packing</i>	3
2.3.2 <i>Delivery packing</i>	3

¹ In the whole text as QS. Our QS is written in conformity with the norms ISO 9002



○ ● ■ Cast and Extruded Acrylic Tubes, Rods, Bars, Balls ■ ● ○

Preface

Our QS for cast acrylic balls in PMMA has been valid since the year 2000. Purpose of this certification is to guarantee the excellent quality of every single ball.

The strict quality control during the production process and a constant improvement of the production technologies allowed the standardisation of the quality of the cast acrylic balls.

1 Material features

Cast acrylic balls are polymerised plastic semi-finished products. They are the result of a processing of cast acrylic sheets and blocks. After the polishing process they are characterised by high purity, brightness and transparency; besides they are very resistant against weather conditions and ageing, since the optical quality and the light transmittance remain unchanged over years².

2 Quality description

2.1 Optical quality

Cast acrylic balls are transparent, are absolutely colourless and have a clear external wall. They are free of bubbles, filaments, foreign bodies. In spite of this, the manufacturing process could cause some light stripes which are visible from a short distance. These stripes are admitted but should not condition the optical quality and the transparency of the entire ball.

Following defects are not admitted:

- Deep scratches;
- Bubbles, inclusions or foreign bodies, unpolymerized stuff in the material bigger than 1 mm³/meter;
- crazing effect

2.2 Tolerances

In order to guarantee an excellent standard quality the cast acrylic balls are controlled many times during the production process. Tubes that show worse values than those indicated in the table 1,2,3 do not get through the quality control and are systematically rejected.

² See 2.3 on weather resistance



○ ● ■ Cast and Extruded Acrylic Tubes, Rods, Bars, Balls ■ ● ○

Table 3: Tolerances for cast acrylic balls

Diameter Ø (mm.)	Packing Unit (N.)	Tolerance on profile
30	1/2/5/10/20	± 1,0 mm.
40	1/2/5/10/20	± 1,0 mm.
45	1	± 1,0 mm.
50	1	± 1,0 mm.
55	1	± 1,0 mm.
60	1	± 1,0 mm.
65	1	± 1,0 mm.
70	1	± 1,0 mm.
75	1	± 1,0 mm.
80	1	± 1,0 mm.
85	1	± 1,0 mm.
90	1	± 1,0 mm.
95	1	± 1,0 mm.
100	1	± 1,0 mm.
120	1	± 1,0 mm.
140	1	± 1,0 mm.
150	1	± 1,0 mm.

2.3 Delivery conditions

2.3.1 Packing

Cast acrylic balls are all single packed (but the O.D. 30) in a PE stretch film and sealed with plastic tape.

2.3.2 Delivery packing

Cast acrylic balls are set in cardboard cases after having been packed which measures are adapted to the quantities.

Ask for more information by fax at 0039 02 95737357 or by mail at info@gevacril.com³

³ The information given refers only to the specific products indicated in the QS. Gevacril considers this information right, reliable and in conformity to the specific technical information available on the market at the moment of their printing but do not give any guaranty for them and for any kind of application or processing of the above mentioned products



GEVACRIL

○ ● ■ Cast and Extruded Acrylic Tubes, Rods, Bars, Balls ■ ● ○