

Pressed Blanks

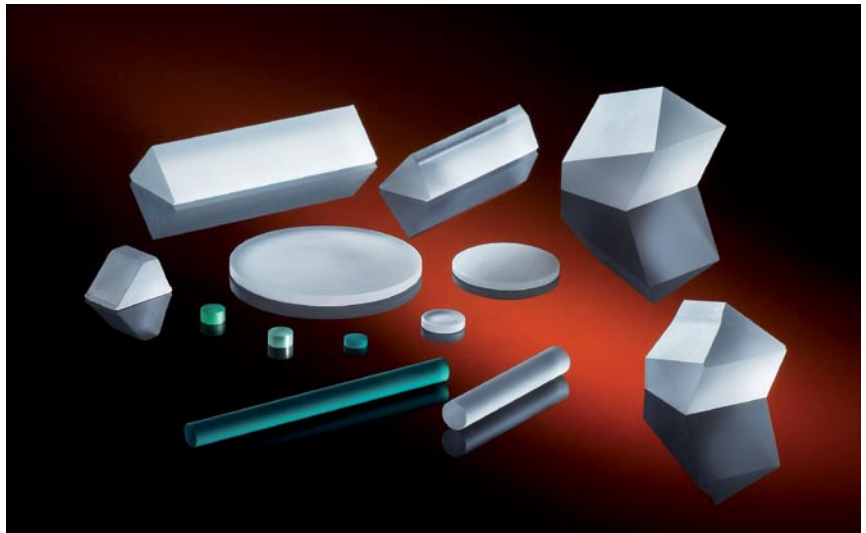
Product information

Pressed blanks are hot formed parts produced by manually pressing of re-heated, softened optical glass, specialty glass or filter glass. SCHOTT molds high grade optical blanks, serving the precision and consumer segments of the market with Round Blanks, Prisms and various shapes for special applications.

Our specific advantages

- Pressing of prisms and blanks with the highest degree of precision
- Long experience with high end precision parts
- Producing and handling big volumes for mass production
- Catering for a wide range of dimensions with special machines. From 0.2 g up to 6 kg
- Offering added value steps like curve generation for blanks and plano-grinding and polishing for prisms
- A large variety of glass types in stock for fast delivery and wide range of requirements

Single Supply Source –
From Raw Glass to Pressed Blanks
and additional refining steps



Applications

Pressed Blanks can be used in all optical applications, such as:

- Sports Optics
- Microscopy
- Digital Projection
- Digital Cameras

Materials

All types of optical glass, coloured filter glass and special glass, such as N-BK7, SF57HHT, KG3, B270, BK7G18, N-FK51A, N-LASF31A, ...

Processing allowance for finished products:

- Moulded Prisms/Moulded Plates
Add 1–1.5 mm all round
Socket 2–3 mm
- Moulded Blanks
Ø > 30 mm Add 0.75 mm all round
Ø > 30 mm Add 0.75–1 mm all round



SCHOTT
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Specifications

For Moulded / Pressed Blanks (Hot formed parts)

Diameter (mm)	Tolerances			Edge Thickness	
	For Diameter (mm)	For Center Thickness (CT) (mm)	Minimum Thickness (CT) (mm)	Minimum (mm)	Maximum (mm)
> 5– 18	+0/–0.18	±0.4	2	1.0	0.6xØ
> 18– 30	+0/–0.25	±0.4	3	1.5	0.45xØ
> 30– 60	+0/–0.3	±0.3	5	3	0.4xØ
> 60– 90	+0/–0.4	±0.3	6	4	0.3xØ
> 90–120	+0/–0.6	±0.4	7	5	0.3xØ
> 120–140	+0/–0.7	±0.5	8	5	0.3xØ
> 140–180	+0/–0.9	±0.5	8	6	0.3xØ
> 180–250	+0/–1.15	±0.5	10	8	0.3xØ
> 250–305	+0/–1.5	±0.6	10	8	0.3xØ

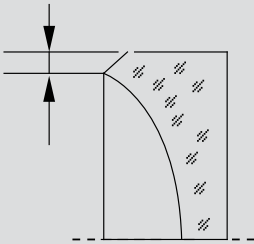
For Moulded / Pressed Prisms (Hot formed parts)

Max. Edge Length (mm)	Tolerances			Socket (mm)
	For edge length (mm)	For Height (CT) (mm)	Angular	
> 5– 30	±0.2	±0.3	±0.5°	2
> 30– 60	±0.3	±0.4	±0.5°	2
> 60– 90	±0.4	±0.5	±0.5°	2.5
> 90–150	±0.5	±0.5	±0.5°	2.5
> 150–180	±0.7	±0.7	±0.5°	3
> 180 and diagonal <305	±1.0	±1.0	±0.5°	4

Chamfer

Chamfer Diameter (mm)	Safety Chamfer (mm)
> 5– 18	0.3
> 18– 90	0.5
> 90–110	0.7
> 110	1.0

Refer to memo fr:TS (07.10.97 and 05.02.98)



The variation of the above safety chamfer is ±50%

For more information please contact:

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