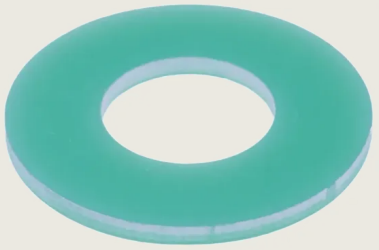
GRP washer M20

G11 · 21.0 × 47.0 × 3.0 mm · ISO 7089 + 10 mm

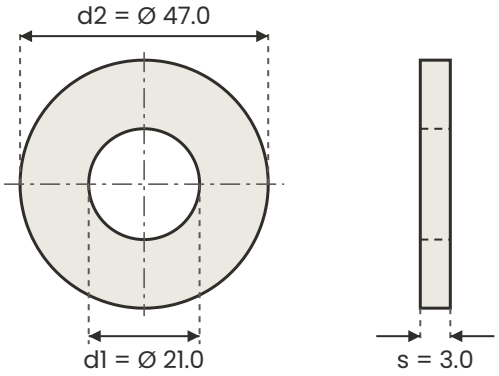
G11 is an epoxy laminate reinforced with woven glass fabric. It combines high mechanical strength, reliable electrical insulation and good resistance to elevated temperatures. The washers suit joints that must carry load and insulate at the same time – in industrial, electrical, marine and offshore environments.

Material	Epoxy resin reinforced with woven glass fabric
Grade	G11 – Hgw 2372.4
Colour	Natural



Outer Ø 47.0 mm

Dimensions and weight



Dimension sketch, not to scale

Item no.	**13905**
Bolt size	**M20**
Inner diameter (d1)	**21.0 mm**
Outer diameter (d2)	**47.0 mm**
Thickness (s)	**3.0 mm**
Weight per piece	**8 g**
Design	**ISO 7089 + 10 mm**

Outer diameter is 10 mm larger than a standard ISO 7089 washer.

CTI 600
Comparative tracking index

140 °C
Max. operating temperature (UL 746E)

55 kV
Dielectric breakdown voltage

< 0.1 %
Water absorption

Key features

- High mechanical strength at ambient and elevated temperatures
- Low water absorption
- Good dimensional stability under thermal stress
- Excellent electrical insulation properties
- High tracking resistance (CTI 600)
- Suitable for load-bearing insulating components