



ENGLISH

Datasheet

## RS Pro Black Glass Reinforced Plastic (GRP) Rod, 1000mm x 10mm Diameter

RS Stock No: 771-780



### Product Details

RS Pro glass reinforced plastic (GRP) rod in black colour, measures 1000 mm long with a diameter of 10 mm. This glass filled nylon 66 rod is unaffected by ultra-violet light. The strong alkalis (pH>11) have no affect on rod, hence the rod possess excellent dimensional stability. The rod is suitable for high temperature static applications.

### Features and Benefits

- High temperature static applications
- 30% glass filling reinforces stiffness
- Excellent dimensional stability
- Increased strength and performance in comparison to standard nylon 66

**Specifications:**

Colour	Black
Flammability Rating	UL 94 HB
Form	Rod
Hardness	M 90 Rockwell
Material	Glass Reinforced Plastic
Suitability	Housing Parts, Friction & Support Rings, Thermal Insulators, Wiper Blades, Levers & Diverse Machine Parts
Density	1.35 g/cm <sup>3</sup>
Elongation	3.5 to 5%
Impact Strength	70 kJ/m <sup>2</sup>
Length	1 m
Maximum Operating Temperature	+110°C
Melting Point	+260°C
Rod Diameter	10 mm
Thermal Conductivity	0.27 W/mK
Water Absorption	5.5%
Tensile Strength	140 MPa (Wet), 160 MPa (Dry)
Moisture Absorption	1.5%
Specific Heat	1.5 J/gK
Thermal Expansion	2 to 3 x 10 <sup>-5</sup> 1/K