



ENGLISH

Datasheet

Stock No: 297-0169

# RS Pro Black Polyetheretherketone (PEEK) Rod, 300mm x 30mm Diameter



## Product Details

### PEEK Bearing Grade

Black PEEK modified with the addition of carbon, graphite and PTFE to offer optimised properties for demanding bearing and friction requirements.

- Good sliding properties even without lubrication/high wear resistance
- High thermal mechanical bearing strength
- Good chemical/radiation (gamma) resistance
- Very rigid/high creep strength
- Superheated steam resistant
- Self-lubricating
- Manufactured to DIN 50014
- Supplied in 300mm lengths
- Black in colour

Max Service Temperature (Long Term)	260°C
Elongation	3%
Tensile Strength MPa	118
Hardness (Rockwell-Shore D)	M86 (Rockwell)
Flammability Rating	UL 94 V-0
Water Absorption	0.10%

### PEEK

PEEK (Polyetheretherketone) high performance thermoplastics are chemical, abrasion and impact resistant. They possess good machineability and self-lubricating properties.

## Specifications:

Colour	Black
Length	300mm
Material	PEEK
Form	Rod
Rod Diameter	30mm
Density	1.48g/cm <sup>3</sup>
Tensile Strength	130 MPa
Flammability Rating	UL 94 V-0
Water Absorption	0.1%
Hardness	208 Ball Indentation
Maximum Operating Temperature	+260°C
Elongation	1.5%

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