

PLASTIC

PEEK

Mechanical Properties

Ultimate Tensile Strength	70.3 - 103 MPa
Yield Strength	87 - 95 MPa
Young's Modulus (modulus of elasticity)	3.76 - 3.95 GPa
Elongation at Break	30 - 150%
Hardness	26.1 - 28.5 HV

Thermal Properties

Maximum Service Temperature	239 - 260°C
Thermal Expansion Coefficient	50 - 60 10^{-6} / °C
Thermal Conductivity	0.24 - 0.26 W/(m°C)

Physical Properties

UV resistance	Good
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Common applications

- Bushings and bearings
- Seals and back-up rings
- Food processing machinery components
- Pump and valve components