

PEEK PLASTIC PELLETS

High Performance Thermoplastic
for Demanding Applications

Excellent Heat Resistance • Superior Mechanical Properties
Outstanding Chemical Resistance • Stable and Reliable



High
Temperature
Resistance



Excellent
Chemical
Resistance



High Strength
& Stiffness



Inherent
Flame Retardancy



Dimensional
Stability



*Stronger Materials
Broader Possibilities*

Product Introduction

PEEK (Polyether Ether Ketone) is a high-performance, semi-crystalline thermoplastic with exceptional heat resistance, mechanical properties, chemical resistance and dimensional stability. SZHL supplies high-quality PEEK resin pellets, suitable for injection molding, extrusion, and other processing methods. PEEK is widely used in aerospace, automotive, electronics, medical, and industrial fields.

Typical Grades



Standard Grade
General purpose,
excellent comprehensive
properties



**Glass Fiber Reinforced
(10% / 30% / 40%)**
Higher strength,
higher modulus



**Carbon Fiber Reinforced
(10% / 30%)**
Higher stiffness,
excellent wear resistance

Typical Technical Data (Unfilled PEEK, Reference)

Property	Typical Value	Test Method
Density (g/cm ³)	1.30-1.32	ASTM D792
Melting Point (°C)	343	ASTM D3418
Glass Transition Temperature (°C)	143	ASTM D3418
Tensile Strength (MPa)	90-100	ASTM D638
Flexural Strength (MPa)	150-170	ASTM D790
Flexural Modulus (GPa)	3.6-4.1	ASTM D790
Izod Notched Impact (kJ/m ²)	3.5-5.0	ASTM D256
Heat Deflection Temperature (1.8 MPa, °C)	152	ASTM D648
UL 94 Flammability	V-0	UL 94
Water Absorption (24 h, %)	≤ 0.1	ASTM D570

Note: The above data are typical values for unfilled PEEK resin. Values may vary depending on grade and testing method. Customized grades (filled, modified, special colors, etc.) are available upon request.

Key Features

- ✓ Continuous use temperature up to 250°C (short-term up to 300°C)
- ✓ Excellent chemical resistance to most acids, alkalis, organic solvents, etc.
- ✓ High mechanical strength and stiffness
- ✓ Inherent flame retardancy (UL 94 V-0)
- ✓ Low moisture absorption
- ✓ Excellent wear and creep resistance
- ✓ Good electrical insulation properties
- ✓ Suitable for injection molding, extrusion and other processing methods
- ✓ Various grades and custom formulations available
- ✓ Stable quality and global supply

Application Areas



Aerospace

Structural parts, interior components, bearings



Automotive

Engine parts, bearings, seals, electrical components



Electronics & Semiconductor

Insulators, connector parts, wafer handling components



Medical Devices

Surgical instruments, implantable components



Industrial Equipment

Seals, wear parts, pump components, high-temperature parts

