

Product Information

VESTAKEEP® 5000 P

UNREINFORCED, HIGH-VISCOSITY POLYETHER ETHER KETONE POWDER



VESTAKEEP® 5000 P is an unreinforced, high-viscosity polyether ether ketone powder.

The semi-crystalline polymer features superior thermal and chemical resistance. VESTAKEEP® 5000 P is of low flammability.

VESTAKEEP® 5000 P is supplied as powder in boxes with moisture-proof polyethylene liners.

Inside the original and undamaged packaging, the product has a shelf life of at least 2 years when stored in dry rooms at temperatures not exceeding 30°C.

Pigmentation may affect the values.

For information about processing of VESTAKEEP® 5000 P, please follow the general recommendations in our brochure "VESTAKEEP® High Performance in Powder Form Polyether Ether Ketone Powders".

The values presented are typical or average values, they do not constitute a specification.

Key Features

Industrial Sector

Automotive and Mobility, Aircraft and Aerospace, Energy, Oil and Gas

Processing

Injection molding, Press and sintering, Coating

Delivery form

Powder

Resistance to

Heat (thermal stability), Fire / burn

Additives

Unfilled

Mechanical properties ISO

	dry	Unit	Test Standard
Tensile modulus	3500	MPa	ISO 527
Tensile strength	95	MPa	ISO 527
Yield stress	95	MPa	ISO 527
Yield strain	5	%	ISO 527

Stress at break	77	MPa	ISO 527
Nominal strain at break, tB	27	%	ISO 527
Charpy notched impact strength, +23°C	9	kJ/m ²	ISO 179/1eA
Type of failure	C	-	-

Thermal properties	dry	Unit	Test Standard
Melting temperature	336	°C	ISO 11357-1/-3
Glass transition temperature, 2 nd heating, midpoint	152	°C	ISO 11357
Melting Temperature	336	°C	ASTM D 3418

Rheological properties	dry	Unit	Test Standard
Melt volume-flow rate, MVR	7.6	cm ³ /10min	ISO 1133
Temperature	380	°C	-
Load	5	kg	-

Test specimen production	dry	Unit	Test Standard
Injection Molding, melt temperature	380	°C	ISO 294
Injection Molding, mold temperature	180	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

Characteristics

Applications

Electrical and Electronical

Processing

Scatter coating

Special Characteristics

High viscosity

Chemical Resistance

General chemical resistance