

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

Resistance to

Heat (thermal stability), Fire / burn

Processing

Injection molding, Press and sintering, Coating

Additives

Unfilled

Delivery form

Powder

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