

Product Texts

Unreinforced, medium-viscosity polyether ether ketone ultra-fine powder

VESTAKEEP® 2000 UFP20 is an unreinforced, medium-viscosity polyether ether ketone ultra-fine powder. The product can be used for coatings according to the tribo-method or can be applied in a suspension.

The semi-crystalline polymer features superior thermal and chemical resistance. VESTAKEEP® 2000 UFP20 is of low flammability.

VESTAKEEP® 2000 UFP20 is supplied as a powder in boxes with moisture-proof polyethylene liners.

Pigmentation may affect values.

Values measured on VESTAKEEP® 2000 P.

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.

For information about processing of VESTAKEEP® 2000 UFP20, 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.

FOR FURTHER INFORMATION PLEASE CONTACT US AT EVONIK-HP@EVONIK.COM OR VISIT OUR PRODUCT AT WWW.INDUSTRIAL.VESTAKEEP.COM

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	71	cm ³ /10min	ISO 1133
Temperature	380	°C	-
Load	5	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3700	MPa	ISO 527
^[C] Yield stress	100	MPa	ISO 527
^[C] Yield strain	5	%	ISO 527
^[C] Nominal strain at break	30	%	ISO 527
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	6	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C	-	-
^[C] Charpy notched impact strength, -30°C	6	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C	-	-

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	340	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	155	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	205	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	310	°C	ISO 306

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1300	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Coating, Transfer Molding

Delivery form

Powder

Features

Thermal Stability

Chemical Resistance

General Chemical Resistance

Regional Availability

North America, Europe, Asia Pacific, South and Central America,
Near East/Africa