

## Product Information

### **VESTAKEEP® 2000UFP20**

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

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

The semi-crystalline polymer features superior thermal and chemical resistance. VESTAKEEP 2000UFP20 is self-extinguishing.

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

For information about processing of VESTAKEEP 2000UFP20, please follow the general recommendations in our brochure "VESTAKEEP Polyether Ether Ketone."

**For further information, please contact our experts in the department Market Development of the High Performance Polymers Business Line.**

## Powder Information

Property	Test method		Unit	VESTAKEEP 2000UFP20
	international	national		
App. bulk density	ISO 60	DIN 53 468	g/dm <sup>3</sup>	270
Average particle size	d50	Malvern Mastersizer	µm	approx. 20

## Application technology properties

Property	Test method		Unit	VESTAKEEP 2000UFP20	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm <sup>3</sup>	1.30
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at yield		ISO 527-2	DIN EN ISO 527-2	MPa	100
Strain at yield				%	5.5
Strain at break				%	20
Tensile modulus		ISO 527-1/2	DIN EN ISO 527-1/2	MPa	3600
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m <sup>2</sup>	N <sup>1)</sup>
	-30°C			kJ/m <sup>2</sup>	N <sup>1)</sup>
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m <sup>2</sup>	6 C <sup>1)</sup>
	-30°C			kJ/m <sup>2</sup>	6 C <sup>1)</sup>
Temperature of deflection under load		ISO 75-1	DIN EN ISO 75-1		
		ISO 75-2	DIN EN ISO 75-2		
Method A	1.8 MPa			°C	155
Method B	0.45 MPa			°C	205
Vicat softening temperature		ISO 306	DIN EN ISO 306		
Method A	10 N			°C	335
Method B	50 N			°C	310
Melting range		ISO 11357			
DSC	2 <sup>nd</sup> heating			°C	approx. 340
Melt volume-flow rate (MVR)		ISO 1133	DIN EN ISO 1133		
	380°C/5 kg			cm <sup>3</sup> /10 min	70
Flammability acc. UL94		IEC60695	UL94		
	0.8 mm				V-1
	1.6 mm				V-0

Pigmentation may affect values.

<sup>1)</sup> C = Complete break, incl. hinge break H  
N = No break

® = registered trademark

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