

Product Information

VESTAKEEP® 1000P

Unreinforced, low-viscosity polyether ether ketone powder

VESTAKEEP 1000P is an unreinforced, low-viscosity polyether ether ketone powder. The product is suitable for the manufacture of compounds or it can be used as scatter-powder for the manufacture of composites.

The semi-crystalline polymer features superior thermal and chemical resistance. VESTAKEEP 1000P is self-extinguishing.

VESTAKEEP 1000P is supplied as a powder in boxes with moisture-proof polyethylene liners.

For information about processing of VESTAKEEP 1000P, please follow the general recommendations in our brochure "VESTAKEEP Polyether Ether Ketone."

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

Powder Information

Property	Test method		Unit	VESTAKEEP 1000P
	international	national		
App. bulk density	ISO 60	DIN 53 468	g/dm ³	approx. 200
Average particle size	d50	Malvern Mastersizer	µm	approx. 550

Application technology properties

Property	Test method		Unit	VESTAKEEP 1000P	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm ³	1.30
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at yield		ISO 527-2	DIN EN ISO 527-2	MPa	105
Strain at yield				%	5.5
Strain at break				%	10
Tensile modulus		ISO 527-1/2	DIN EN ISO 527-1/2	MPa	3800
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m ²	60 C ¹⁾
	-30°C			kJ/m ²	60 C ¹⁾
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m ²	5 C ¹⁾
	-30°C			kJ/m ²	5 C ¹⁾
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 nd heating			°C	approx. 340
Melt volume-flow rate (MVR)		ISO 1133	DIN EN ISO 1133		
	380°C/5 kg			cm ³ /10 min	approx. 140
Flammability acc. UL94		IEC60695	UL94		
	0.8 mm				V-1
	1.6 mm				V-0

¹⁾ C = Complete break, incl. hinge break H

® = registered trademark

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