

Product Information

VESTAKEEP® 2000FP

Unreinforced, medium-viscosity polyether ether ketone fine powder

VESTAKEEP 2000FP is an unreinforced, medium-viscosity polyether ether ketone fine powder. It can be used as a basic resin or in blends with different additives for manufacturing compression molding parts.

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

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

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

For further information, please contact us at evonik-hp@evonik.com.

Powder Information

Property		Test method international	national	Unit	VESTAKEEP 2000FP
App. bulk density		ISO 60	DIN 53 468	g/dm³	280
Average particle size	d50		Malvern Mastersizer	μm	approx. 50

Application technology properties

Property		Test method international	national	Unit	VESTAKEEP 2000FP
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm³	1.30
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at yield		ISO 527-2	DIN EN ISO 527-2	МРа	100
Strain at yield				%	5
Strain at break				%	30
Tensile modulus		ISO 527-1/2	DIN EN ISO 527-1/2	МРа	3700
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m²	N ¹⁾
	-30°C			kJ/m²	N ¹⁾
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m²	6 C ¹⁾
	−30°C			kJ/m²	6 C1)
Temperature of deflection		ISO 75-1	DIN EN ISO 75-1		
under load		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				cm³/10 min	70
Flammability acc. UL94	3.2 mm	IEC60695	UL94		V-0

Pigmentation may affect values.

C = Complete break, incl. hinge break H N = No break

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