

VESTAKEEP® 4000FP

Polyetheretherketone
Evonik Industries AG

Message:

Unreinforced, high-viscosity polyether ether ketone fine powder.
VESTAKEEP 4000FP is an unreinforced, high-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 4000FP is self-extinguishing.

General Information			
Features	Good Chemical Resistance		
	High Viscosity		
	Self Extinguishing		
	Semi Crystalline		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Apparent Density	0.25	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (380°C/5.0 kg)	11.0	cm ³ /10min	ISO 1133
Average Particle Size - d50 ¹	60	µm	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2
Tensile Stress (Yield)	96.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	5.0	%	
Break	30	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	6.0	kJ/m ²	
23°C, Complete Break	7.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	205	°C	ISO 75-2/B
1.8 MPa, Unannealed	150	°C	ISO 75-2/A
Vicat Softening Temperature			
--	335	°C	ISO 306/A

--	305	°C	ISO 306/B
Melting Temperature ²	340	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	V-0		UL 94
NOTE			
1.	Malvern Mastersizer		
2.	2nd heating		

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