

VESTAKEEP® 2000G

Polyetheretherketone

Evonik Industries AG

Message:

Medium-viscosity, unreinforced polyether ether ketone

VESTAKEEP 2000G is a medium-viscosity, unreinforced polyether ether ketone for injection molding.

The semi-crystalline polymer features superior thermal and chemical resistance. Parts made from VESTAKEEP 2000G are self-extinguishing.

VESTAKEEP 2000G can be processed by common injection molding machines for thermoplastics.

We recommend a melt temperature between 360°C and 380°C during the injection molding process. The mold temperature should be within a range of 160°C to 200°C, preferably 180°C.

General Information			
UL YellowCard	E100203-100947904		
Features	Good Chemical Resistance		
	Medium Viscosity		
	Self Extinguishing		
	Semi Crystalline		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (380°C/5.0 kg)	70.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 294-4
Across Flow : 80°C, 2.00 mm	1.1	%	
Flow : 80°C, 2.00 mm	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3700	MPa	ISO 527-2
Tensile Stress (Yield)	100	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	6.0	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	335	°C	ISO 306/A
--	310	°C	ISO 306/B

Melting Temperature ²	340	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	6.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength ³	16	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.80		
1 MHz	2.80		
Comparative Tracking Index			IEC 60112
Solution A ⁴	175	V	
Solution A	200	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	800	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Processing (Melt) Temp	360 to 380	°C	
Mold Temperature	160 to 200	°C	
NOTE			

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| 1. | determined on 2 mm sheets with film gate at rim mold temperature 180°C |
| 2. | 2nd heating |
| 3. | K20/P50 |
| 4. | 100 drops value |

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