

VESTAKEEP® 4000 FP

PEEK

Evonik Operations GmbH

Unreinforced, high-viscosity polyether ether ketone fine powder

VESTAKEEP® 4000 FP is an unreinforced, highviscosity 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® 4000 FP is of low flammability.

VESTAKEEP® 4000 FP is supplied as powder in boxes with moisture-proof polyethyleneliners.

Inside the original and undamaged packaging, the product has a shelf life of at least 2 years when stored in dry rooms at temperatures not exceeding 30 °C.

Pigmentation may affect values.

For guidance processing of VESTAKEEP® 4000 FP please follow the general recommendations in our brochure "VESTAKEEP® High Performance in Powder Form Polyether Ether Ketone Powders".

The values presented are typical or average values, they do not constitute a specification.

流变性能	数值	单位	试验方法
ISO数据			
熔体体积流动速度, MVR	11	cm³/10min	ISO 1133
温度	380	°C	-
载荷	5	kg	-

机械性能	数值	单位	试验方法
ISO数据			
拉伸模量	3500	MPa	ISO 527
屈服应力	96	MPa	ISO 527
屈服伸长率	5	%	ISO 527
名义断裂伸长率	30	%	ISO 527
无缺口简支梁冲击强度, +23°C	无断裂	kJ/m²	ISO 179/1eU
无缺口简支梁冲击强度, -30°C	无断裂	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	7	kJ/m²	ISO 179/1eA
Type of failure	C	-	-
简支梁缺口冲击强度, -30°C	6	kJ/m²	ISO 179/1eA
Type of failure	C	-	-

热性能	数值	单位	试验方法
ISO数据			
熔融温度, 10°C/min	340	°C	ISO 11357-1/-3
热变形温度, 1.80 MPa	150	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	205	°C	ISO 75-1/-2
维卡软化温度, 50°C/h 50N	305	°C	ISO 306

其它性能	数值	单位	试验方法
ISO数据			
密度	1300	kg/m³	ISO 1183

特征

加工方法

模压/烧结成型, 模压成型

特征

共混树脂

供货形式

粉料

耐化学试剂

通用耐化学性