

技术数据表

KEPSTAN® 8010C30

POLYETHERKETONEKETONE PELLET OR FLAKE

指定

- PEKK-CF30

Delivery Form

- Pellets

转化过程

- Injection Molding

流变特性

特性	价值	测试标准
Melt volume flow rate (MVR), 380°C / 5 kg (716°F / 11 lb)	5 - 7 cm³/10min	ISO 1133

机械性能

特性	价值	测试标准
Tensile modulus, 23°C (73°F), 1 mm/min (Flow direction, 1BA)	24400 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 1 mm/min (Flow direction, 1BA)	247 MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 1 mm/min (Flow direction, 1BA)	1.5 %	ISO 527-1/-2
Compression modulus, 23°C (73°F), 1 mm/min (Flow direction)	10200 MPa	ISO 604
Compression strength, 23°C (73°F) (Flow direction, 5mm/min)	294 MPa	ISO 604
Tensile modulus, 23°C (73°F), 1 mm/min (Transverse direction, 1BA)	19600 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 1 mm/min (Transverse direction, 1BA)	190 MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 1 mm/min (Transverse direction, 1BA)	1.3 %	ISO 527-1/-2

热性能

特性	价值	测试标准
Melting temperature, 20°C/min (DSC, 2nd Heating)	360 °C (680 °F)	
Glass transition temperature, 20°C/min (DSC)	165 °C (329 °F)	
Heat deflection temperature, 1.8 MPa	>330 °C	ISO 75-1/-2
Burning behavior (0.8mm)	V-0	IEC 60695-11-10

电气性能

特性	价值	测试标准
Surface resistivity, 23°C (73,4°F)	<10E+5 ohm.cm	ASTM D257
Volumic (transversal) resistivity, 23°C (73,4°F)	<10E+5 ohm/sq	ASTM D257

其他属性

特性	价值	测试标准
Water absorption, 23°C(73°F), immersion, equilibrium (2mm)	0.4 %	ISO 62
Water absorption, 23°C (73°F) (After 24h, immersion, 2mm)	0.1 %	ISO 62
Apparent density, 23°C (73°F)	1.39 g/cm³	ISO 1183-1

保质期

Indefinite when stored properly (sealed bags, appropriate UV protection and temperature)

加工条件:

- 典型熔融温度 (最小/推荐/最大) ——注塑成型: Rear 350°C / Center 375°C / Front 375°C / Nozzle 385°C (660°F / 710°F / 710°F / 725°F)
- 典型模具温度——注塑成型: 220-240°C (430-465°F), to facilitate skin & core cristallization
- Drying time and temperature: 150°C (300°F) / 3-4 hours

特殊特性

- Halogen Free Flame Retardant (HFFR)

Headquarter: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
T +33 (0)1 49 00 80 80

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