

PK JH960VL NC

Description (简介)

Advanced high-flow injection molding grade(UV reinforced)

中流动注塑级 (UV增强)

Physical Properties (物理性能)	Test Method	Unit (单位)	Value(数值)
Density密度	ASTM D792	g/cm3	1.24
Shore D hardness 邵氏硬度D	ISO 868	D	77
Hardness Rockwell 洛氏硬度R	ASTM D785	R	110
Water absorption equilibrium at RH 50% 50%湿度下的吸水率	ASTMD570	%	0.5%
Water absorption at Saturation 饱和吸水率	ASTMD570	%	2.1%
Melt flow index 240°C/2.16kg 熔指	ASTM D1238	240°C,2.16Kg	60g/10min
Mold Shrinkage 模具收缩率	D955		
	MD, 3 mm		2.0%
	TD, 3 mm		2.0%
	MD, 2 mm		1.6%
	TD, 2 mm		1.5%

Mechanical Properties (机械性能)	Test Method	Unit (单位)	Value(数值)
Tensile strength at yield 拉伸强度	ASTM D638	MPa	60
Tensile modulus 拉伸模量	ASTM D638	MPa	1600
Tensile elongation at break 断裂伸长率	ASTM D638	%	≥200
Flexural strength 弯曲强度	ASTM D790	MPa	57
Flexural modulus 弯曲模量	ASTM D790	MPa	1500
Cantilever beam notch impact 悬臂梁缺口冲击	180/1A	kJ/m2	7
	ASTM D256	J/m	95

Thermal Properties (热学性能)	Test Method	Unit (单位)	Value(数值)
Melting temperature 熔点	D3418	°C	222
Coefficient of linear thermal expansion, 25 ~ 55°C 线性热膨胀系数 25 ~ 55°C	E831	-	9.7×10 ⁻⁵
Vicat softening point 维卡软化点	D1525 5Kg	°C	195
Heat deflection temperature 热变形温度	D648		
	66 psi 0.45Mpa 26 psi 1.8Mpa	°C	200 105

Flammability Properties(燃烧特性)	Test Method (测试方法)	Value(数值)
Flame resistance 阻燃性	UL 94	HB (0.8mm)
Glow Wire Ignition Temperature (GWIT) 灼热丝起燃温度	IEC 60695-2-13	725 °C (0.8 mm)
Glow Wire Flammability Index (GWFI) 灼热丝可燃性指数	IEC 60695-2-12	700 °C (0.8 mm)

Electrical Properties (电气性能)	Test Method	Value(数值)
Dielectric Strength (DS) 介电强度	ASTM D149	23 kV/mm
Volume Resistivity (VR) 体积电阻率	ASTM D257	10 ¹² Ω-cm
Surface Resistivity (SR) 表面电阻率	ASTM D257	10 ¹⁷ Ω/m ²
Dielectric constant at 60Hz 60Hz下的介电常数	ASTM D150	6.2
	IEC 250	5
Dissipation factor at 60Hz 60Hz下的介电损耗	ASTM D150	0.008
	IEC 250	0.013

Injection Molding Processing Conditions 注塑工艺指南		Value(数值)
Pre-drying 预干燥	Drying temperature 干燥温度	80 °C
	Drying time 干燥时间	3 ~ 4 hr
	Suggested max moisture 建议最大湿度	0.20 %
Temperature 温度	Nozzle temperature 喷嘴温度	240 °C
	Zone 1 temperature 第一段温度	230 °C
	Zone 2 temperature 第二段温度	220 °C
	Zone 3 temperature 第三段温度	215 °C
	Zone 4 temperature 第四段温度	210 °C
	Processing temperature 加工温度	225 ~ 240 °C
	Mold temperature 模具温度	60 ~ 80°C
Pressure 压力	Back pressure 背压	0.294 ~ 0.686
Speed 速度	Screw Speed 螺杆转速	50 ~ 100 rpm

* The data listed here is not for specification warranty, but typical value.

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