

PK JH960G15 BK

Description (简介)

15% glass-reinforced injection molding grade.
玻璃纤维增强15%(黑色) 材料。

Physical Properties (物理性能)	Test Method	Unit (单位)	Value(数值)
Density密度	ASTM D792	g/cm3	1.35
Shore D hardness 邵氏硬度D	ASTM D2240	D	79
Hardness Rockwell 洛氏硬度R	ASTM D785	R	99
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	%	1.9%
Melt flow index 240°C/2.16kg 熔指	ASTM D1238	240°C,2.16Kg	24g/10min
Mold Shrinkage 模具收缩率	D955		
	MD, 3 mm		0.4%
	TD, 3 mm		1.3%
	MD, 2 mm		0.4%
	TD, 2 mm		1.1%

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	95
Tensile modulus 拉伸模量	ASTM D638	MPa	4000
Tensile elongation at break 断裂伸长率	ASTM D638	%	4
Flexural strength 弯曲强度	ASTM D790	MPa	115
Flexural modulus 弯曲模量	ASTM D790	MPa	3300
Cantilever beam notch impact 悬臂梁缺口冲击	ASTM D256	kJ/m2	10
		J/m	110

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		
	TD	-	8.5×10 ⁻⁵
	MD		4.6×10 ⁻⁵
Vicat softening point 维卡软化点	D1525 5Kg	°C	205
Heat deflection temperature 热变形温度	D648		
	66 psi 0.45Mpa 26 psi 1.8Mpa	°C	215 205

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

Electrical Properties (电气性能)	Test Method	Value(数值)
Dielectric Strength (DS) 介电强度	ASTM D149 3 mm	21 kV/mm
	2 mm	23 KV/mm
Volume Resistivity (VR) 体积电阻率	ASTM D257	10 ¹⁴ Ω-cm
Surface Resistivity (SR) 表面电阻率	ASTM D257	10 ¹⁷ Ω/m2
Dielectric constant at 60Hz 60Hz下的介电常数	ASTM D150	6.0
Dissipation factor at 60Hz 60Hz下的介电损耗	ASTM D150	0.011

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	250 °C
	Zone 1 temperature 第一段温度	250 °C
	Zone 2 temperature 第二段温度	240 °C
	Zone 3 temperature 第三段温度	230 °C
	Zone 4 temperature 第四段温度	225 °C
	Processing temperature 加工温度	240 ~ 260 °C
	Mold temperature 模具温度	80 ~ 120 °C
Pressure 压力	Back pressure 背压MPa	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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