



# 厦门科元塑胶有限公司

Xiamen Keyuan Plastic Co.,Ltd.

## Grade Name

产品描述	聚丙烯PP
Product Description	Polypropylene
产品等级	阻燃增强级
Product Grade	V0 /Gf Grade
产品外观	本色颗粒
Appearance	Natural Pellet

## 产品性能参数Data Sheet

项目 Item	典型性能 Typical Characteristic	测试标准 Testing Standard
密度 Density	0.95 g /cm <sup>3</sup>	GB1033
模塑收缩率 Molding Shrinkage	1.0-1.5 %	***
拉伸强度 Tensile Strength	30 MPa	GB1040
弯曲强度 Flexural Strength	53 MPa	GB9341
断裂伸长率 Elongation at break	300%	GB1040
悬臂梁冲击强度 Izod Impact Strength	80 KJ/m <sup>2</sup>	GB1843
体积电阻率 Volume Resistivity	10 <sup>16</sup> Ω.cm	GB1044
阻燃性 Retardant	Flame V-0	GB4609
热变形温度 Heat Deflection Temperature	130 °C	GB1634
玻纤含量 Fiber	Glass 10% Gf	
使用温度 Use temperature		
加工温度 Processing temperature	: 230 - 250 ° C	
模具温度 Mould temperature	: 100 - 120 ° C	
背压 Back pressure	: ca.10 - 15 bar	
注塑速度 Injection speed	: 中/高 medium/high	
干燥 Pre-drying	: 需要 necessary	

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## 注意事项

### Matters need attention

除非另有特别说明，产品手册中的所有数据均来源于室温条件（23℃，50%相对湿度）下对标准试样进行的测试。这些数据为实验典型值，真实可靠，仅能作为参考性数据，不能认定为材料性能的最小值。

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#### 安全及处理注意事项:

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本产品的毒性极低，在正常条件下使用时，人体吸入、眼部及皮肤接触都没有特别问题。不过，在处理、储存、使用或者弃置这些树脂时仍须谨慎小心。工厂场所应保持整洁，以避免粉尘聚积。在加工操作中，应尽量避免接触熔融的树脂。

塑料树脂产品在制造过程中会产生粉尘和气体。对注塑制品进行锯、锉、打磨等操作时产生的粉尘可能会刺激眼睛和上呼吸道。在多尘的生产环境中，建议操作工人使用经有关部门认可的呼吸器或面罩。按正确操作规程要求，塑料加工区应有良好的通风。塑料在加工过程中超过熔融温度时会释放出含有分解物质的烟雾，此类烟雾可能具刺激性。在大多数情况下，一般良好的通风设备便已足够。当有需要时，应使用局部抽气通风方法。

如在工作中会接触到飞扬的微粒而对眼睛造成伤害时，便要配戴防化护目镜。处理本树脂时，若有需要，可戴上隔热手套作保护。

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#### Safety and Handling Notice:

Customers can request NCM Local Offices to provide MSDS of required products. From these MSDS, Customers can gain information on material processing, material safety, and material disposal approaches. At the same time, Customers can know about the local applicable health and safety regulations. The information we provide hereafter is only the general notice, and it is for the provided resin only. The additives and processing agents for plastic molding and other material for secondary processing have their own safety requirements, so Users must learn those safety requirements. This product has quite low toxicity. In normal conditions, it won't cause any serious problem after inhalation, eye or skin contact. But Users still need to be careful when storing, using and disposing these resins. Users shall keep the factory clean and tidy and avoid dust accumulation. Users shall try to prevent themselves from contacting with molten resins during operation.

Plastic resin products would produce dust and gas in their manufacturing process. The dust, caused by sawing, rasping and polishing of plastic injection parts, might irritate eyes and upper respiratory tract. In the dusty production environment, it is suggested that workers wear respirators or masks approved by authoritative department. Plastic processing zone should have good ventilation as the standard operation procedure requests. If the processing temperature exceeds the melting temperature, the plastic would release irritative smoke which contains decomposition materials. In most cases, it is enough to use the general ventilation equipment. If needed, local exhaust ventilation equipment can be used, too.

If working in a place where floating particles might hurt their eyes, Users can wear the chemical safety goggles to protect their eyes. If needed, Users can wear insulated gloves to protect themselves when processing this resin.

This product will turn yellow under UV light, so Users should avoid direct sunlight when storing this product.

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Product Grade	V0 Grade
产品外观	本色颗粒
Appearance	Natural Pellet

## 产品性能参数Data Sheet

项目 Item	典型性能 Typical Characteristic	测试标准 Testing Standard
密度 Density	g/cm <sup>3</sup>	ASTM D-792
熔体流动速率 Melt Flow Rate	g/10min	ASTM D-1238
成型收缩率 Molding Shrinkage	%	ASTM D-955
吸水率 Water Absorption	%	ASTM D-570
灰分 Content of Ash	%	
洛氏硬度 Rockwell Hardness		ASTM D-785
拉伸强度 Tensile Strength	MPa	ASTM D-638
弯曲强度 Flexural Strength	MPa	ASTM D-790
断裂伸长率 Elongation at break	%	ASTM D-638
弯曲模量 Flexural Modulus	MPa	ASTM D-790
简支梁冲击强度 Charpy Impact Strength	KJ/m <sup>2</sup>	ASTM D-6110
简支梁缺口冲击强度 Charpy Notched Impact	KJ/m <sup>2</sup>	ASTM D-6110
悬臂梁冲击强度 Izod Impact Strength	KJ/m <sup>2</sup>	ASTM D-256
悬臂梁缺口冲击强度 Izod Notched Impact Strength	KJ/m <sup>2</sup>	ASTM D-256
熔点 Melting Point	°C	ASTM D-3418
维卡软化点 Vicat Softening Point	°C	ASTM D-1525
热变形温度 Heat Deflection Temperature	°C	ASTM D-648
玻璃转化温度 Glass Transition Temperature	°C	ASTM D-7028
线性热膨胀系数 CLTE	10 <sup>-4</sup> /°C	ASTM D-696
阻燃性 Retardant	Flame	UL 94
燃烧速率 Burning Rate	mm/min	
介电常数 Permittivity		ASTM D-150
损耗因素 Loss Factor		ASTM D-150
表面电阻率 Surface Resistivity	Ω	ASTM D-257
体积电阻率 Volume Resistivity	Ω.cm	ASTM D-257
介电强度 Dielectric Strength	kV/mm	ASTM D-149
漏电起痕指数 CTI	V	ASTM D-1525
使用温度 Use temperature		
加工温度 Processing temperature	: 230 - 250 °C	
模具温度 Mould temperature	: 100 - 120 °C	
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