



# 厦门科元塑胶有限公司

Xiamen Keyuan Plastic Co.,Ltd.

产品 描 述	增强级PBT
Product Description	Glass Fiber Reinforced PBT Material
产品 等 级	注塑级别
Product Grade	Injection Molding Grade
产品 外 观	本色颗粒
Appearance	Natural Pellet

## 产品性能参数Data Sheet

项目	典型性能	典型性能	测试标准
Item	Typical Characteristic	Typical Characteristic	Testing Standard
	KY-IF-20G	KY-IF-30G	
玻纤含量 Glass Fiber	20%	30%	
成型收缩率 Molding Shrinkage	0.4-1.1 %	0.3-1 %	ASTM D-955
吸水率 Water Absorption	0.07%	0.06%	ASTM D-570
比重 Specific Gravity	1.45%	1.53	ASTM D-792
拉伸强度 Tensile Strength	117 MPa	140 MPa	ASTM D-638
拉伸模量 Tensile Modulus	7482 MPa	10000 MPa	ASTM D-790
弯曲强度 Flexural Strength	179 MPa	200 MPa	ASTM D-790
弯曲模量 Flexural Modulus	6137 MPa	8965 MPa	ASTM D-790
断裂伸长率 Elongation at break	3.30%	2.60%	ASTM D-638
悬臂梁冲击强度 Izod Impact Strength	69 KJ/m <sup>2</sup>	112 KJ/m2	ASTM D-256
悬臂梁缺口冲击强度 Izod Unnotched Impact Strength	736 KJ/m <sup>2</sup>	998 KJ/m2	ASTM D-256
熔点 Melting Point	225 °C	225 °C	ASTM D-3418
热变形温度 Heat Deflection Temperature	220/203 °C	220/205 °C	ASTM D-648
线性热膨胀系数 CLTE	10-4/°C	10-4/°C	ASTM D-696
阻燃性 Retardant Flame	HB	HB	UL 94
介电常数 Permittivity	3.8/3.6	4/3.8	ASTM D-150
损耗因素 Loss Factor	0.006/0.019	0.002/0.018	ASTM D-150
表面电阻率 Surface Resistivity	0.016 Ω	0.10 Ω	ASTM D-257
体积电阻率 Volume Resistivity	2.3 Ω.cm	1 Ω.cm	ASTM D-257
介电强度 Dielectric Strength	22/17 kV/mm	23/17 kV/mm	ASTM D-149
使用温度 Use temperature			
加工温度 Processing temperature : 240 - 260 ° C			
模具温度 Mould temperature : 100 - 130 ° C			
背压 Back pressure : ca.10 - 15 bar			
注塑速度 Injection speed : 中/高 medium/high			
干燥 Pre-drying : 110-130°C			

## 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。  
These technical data in the product brochures are typical data under specific test conditions and not intended for use as limiting specifications.

### 安全及处理注意事项：

客户可向当地的办事处索要产品的材料安全数据表（MSDS），客户从MSDS 中可得到材料处理、安全和弃置方面的资料，以及当地适用的健康和安全规定的要求。下面所述只是一般注意事项，仅适用于所提供的树脂。用于塑料成型的各类添加剂和加工助剂，以及用于二次加工工序的其它材料有其自身的安全要求，因此必须去了解。

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，以避免粉尘累积。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。对注塑制件进行锯、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。

该产品在紫外线作用下会有发黄现象，因此产品存储时应避免太阳光直接照射。

### 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.