

Material Data Sheet

技术数据表

Dongguan Keside Plastic Technology Co., LTD

材料类型：聚碳酸酯
Material Type: PC

牌号
Grade Name: KSD180HT

材料特性 耐高温
高耐热
易成型

Features: High temperature resistance
High heat resistance
Easy to form

加工方法：注塑成型
外观：透明、可用颜色
应用：车灯、汽车应用

Processing: Injection molding
Appearance: transparency、Available color
Applications: headlight, Automotive application

通用性能 (General Properties)

序号 No	性能 Properties	检测方法 Methods	单位 Units	实测值 Values	测试条件 Test Conditions
1.	密度 Density	ISO 1183-1	g/cm ³	1.13	23°C
2.	熔体流动速率 Melt Flow Rate	ISO 1133-1	g/cm ³	8	260°C×5kg
3.	拉伸屈服强度 Tensile Strength at Yield	ISO 527-2	MPa	76	50mm/min
4.	断裂伸长率 Elongation at Break	ISO 527-2	%	≥50	50mm/min
5.	弯曲强度 Flexural Strength	ISO 178	MPa	71	2mm/min, 64mm
6.	弯曲模量 Flexural Modulus	ISO 178	MPa	2450	2mm/min, 64mm
7.	缺口冲击强度 Notched Impact Strength	ISO 179-1	kJ/m ²	无断裂	23°C
8.	缺口冲击强度 Notched Impact Strength	ISO 179-1	kJ/m ²	无断裂	-30°C
9.	维卡软化温度 Vicat Softening	ISO 306	°C	183	ISO 306/B120
10.	热变形温度 Heat Deflection Temp	ISO 75-2	°C	174	0.45MPa, 120°C/h
11.	热变形温度 Heat Deflection Temp	ISO 75-2	°C	158	1.8MPa, 120°C/h
12.	燃烧特性 Flammability (Burn Rate)	ISO 3795	mm	HB	UL94

注：以上数据为实验典型值，真实可靠，仅作参考，不能认定为材料性能最小值。

Note: The technical data above are authentic and reliable for reference. These value cannot be defined as the minimal performance value.

Drying Cond	120-130°C	*5-8h
Molding Temp	310-315°C(F), 305-315°C(M), 295-305°C(B)	
Injection Speed	Low to Medium	
Injection Pressure	70-110	MPa
Back Pressure	5-15	MPa
Mold Temp	120-140	°C
Moisture Control	<0.05%	

Ke Si De Plastics

KSDPLAS KSD180HT

CAUTION/警告!

Before using, read the Molding Guide, Material Safety Data Sheets, and Bulletins available from Ke Si De Plastics Advanced Composites Sales offices and Distributors supplied to your company. Caution! During drying, purging and molding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat. Use adequate local exhaust ventilation during thermal processing. To prevent resin decomposition, do not contaminate the resin or exceed the recommended melt temperature or hold-up time. Avoid inhalation or skin and eyes contact. Sweep up and dispose of spilled resin to eliminate slipping hazard.

在使用之前, 请阅读科思德塑胶销售办事处和经销商提供给贵公司的材料成型指南、材料安全数据表和公告。

警告! 在干燥、吹扫和成型过程中, 少量有害气体或颗粒物可能会在被释放, 这些可能会刺激眼睛, 鼻子和喉咙。热处理过程中请注意做好排气通风工作。为防止树脂分解, 请勿污染树脂或超过我们为您推荐熔融温度或时间。请避免吸入或与皮肤、眼睛等接触。清扫和处理溢出的树脂, 以消除滑到的危险。

LEGAL NOTICES/法律声明

The figures indicated here are approximate values. They may be affected by different factors, and the user is not released therefore from the obligation of performing checks and trials of his own. The values indicated here have been compiled on the basis of current tests and findings. Any legally binding guarantee of certain properties, or any suitability for a specific application can not be inferred from the present data. For detailed production regulatory information, contact customer service.

上列数据仅作参考用途, 它们可能会受不同因素的影响, 使用者有责任通过实验自行确定材料特性。上述资料根据现有测试得出, 对物料特性是否适合某特殊用途及特性不能给予保证, 数据也没有任何法律约束力。更多有关详细的产品监管信息, 请联系客户服务。

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感谢您访问科思德塑胶! 我们将科研创新与生产应用紧密相连, 无论您是设计师、工程师或者是采购员, 我们都可以帮助您拓展业务并获得新的灵感, 我们坚持诚信、合作、效率、创新的核心价值观, 始终把客户放在心中, 相比于我们的竞争对手, 我们专注于为您提供更先进的技术配方、更优质的产品, 更好的解决方案及更周到的售后服务, 我们懂市场、我们懂产品、我们更懂你们。

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