

# KSDPLAS

Ke Si De Plastics

## 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: KSD1200LED

材料特性：光扩散

Features: Optical diffusion

加工方法：注塑成型 挤出成型

Processing: Injection molding 、 Extrusion forming

外观：白色

Appearance: White

应用：LED应用

Applications: LED 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 <sup>3</sup>	1.20	23°C
2.	熔体流动速率 Melt Flow Rate	ISO 1133-1	g/cm <sup>3</sup>	18	260°C×5kg
3.	拉伸屈服强度 Tensile Strength at Yield	ISO 527-2	MPa	61	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	72	2mm/min, 64mm
6.	弯曲模量 Flexural Modulus	ISO 178	MPa	2130	2mm/min, 64mm
7.	缺口冲击强度 Notched Impact Strength	ISO 179-1	kJ/m <sup>2</sup>	35	23°C
8.	透射率 Transmittance	ASTM D1003	%	77	3000 μm
9.	维卡软化温度 Vicat Softening	ISO 306	°C	135	ISO 306/B120
10.	热变形温度 Heat Deflection Temp	ISO 75-2	°C	127	0.45MPa, 120°C/h
11.	表面电阻率 Surface resistivity		ohms	>1.0E+15	IEC 60093
12.	燃烧特性 Flammability (Burn Rate)	ISO 3795	3.00mm	V-0	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	110-120°C * 5-8h	
Molding Temp	293-316°C(F), 282-304°C(M), 217-293°C(B)	
Injection Speed	Low to Medium	
Injection Pressure	70-110	MPa
Back Pressure	0-7	MPa
Mold Temp	71-93	°C
Moisture Control	<0.05%	

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## 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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## 联系/CONTACT

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