

### 产品说明 Product Description

180K 喷射用合股无捻粗纱涂覆硅烷基浸润剂，与不饱和聚酯树脂和乙烯基树脂兼容。

180K 主要用于喷射浸透速度要求较快的工艺，应用领域包括玻璃钢船体、卫生洁具、储罐和汽车部件等。

*180K Assembled Roving for Spray-up is coated with a silane-based sizing, compatible with unsaturated polyester and vinyl ester resins.*

*180K applications include FRP boats, sanitary wares, storage tanks and auto parts where fast wet-out of resins is desired in the spray-up process.*



### 产品特点 Product Features

- ◎ 优异的短切性和分散性
  - ◎ 快速和完全浸透，易辊压操作和无回弹
  - ◎ 制品表面质量良好
  - ◎ 最佳的树脂消耗
  - ◎ 制品具有优良的机械强度
- Excellent choppability and dispersion  
·Fast and complete wet-out ensures easy roll-out and rapid air release  
·Great surface quality of composite parts  
·Optimal resin consumption  
·Excellent mechanical properties of composite parts

### 规格代号 Specification

玻璃类型 Glass type	E	
浸润剂类型 Sizing type	硅烷 Silane	
典型纤维直径 Typical filament diameter (μm)	12	
典型线密度 Typical linear density (tex)	2400	4000
示例 Example	ER12-2400-180K	

### 技术指标 Technical Parameters

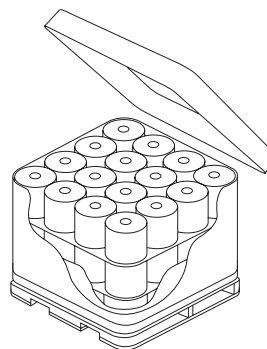
项目 Item	线密度偏差 Linear density variation	含水率 Moisture content	可燃物含量 Sizing content	硬挺度 Stiffness
单位 Unit	%	%	%	mm
检测方法 Test method	ISO 1889	ISO 3344	ISO 1887	ISO 3375
指标 Standard range	± 4	≤ 0.07	1.00 ± 0.15	135 ± 20

### 使用说明 Instructions

- ◎ 本产品应在12个月内使用最佳，使用前应保存在原包装内。
  - ◎ 产品使用时注意防护，避免产品擦毛、损伤等情况。
  - ◎ 使用前调理纱线的温湿度与环境温湿度平衡，使用时对环境温湿度进行适当控制。
- The product is best used within 12 months after production, and should be kept in the original package before use.  
·Care should be taken when using the product to prevent it from being scratched or damaged.  
·The temperature and humidity of the product should be conditioned to be close or equal to the ambient temperature and humidity before use, and the ambient temperature and humidity should be properly controlled during the use.

### 包装信息 Packaging

项目 Item	单位 unit	指标 Standard	
典型包装方式 Typical packaging method	/	采用托盘包装 Packed on pallets.	
典型纱团高度 Typical package height	mm (in)	260 (10.2)	
纱团内径 Package inner diameter	mm (in)	100 (3.9)	
典型纱团外径 Typical package outer diameter	mm (in)	280 (11.0)	
典型纱团重量 Typical package weight	kg (lb)	17.5 (38.6)	
层数 Number of layers	层 (layer)	3	4
每层纱团个数 Number of packages per layer	个 (pcs)	16	
每托纱团个数 Number of packages per pallet	个 (pcs)	48	64
每托重量 Net weight per pallet	kg (lb)	840 (1851.9)	1120 (2469.2)
托盘长度 Pallet length	mm (in)	1140 (44.9)	
托盘宽度 Pallet width	mm (in)	1140 (44.9)	
托盘高度 Pallet height	mm (in)	940 (37.0)	1200 (47.2)



### 贮存 Storage

在没有特殊要求的情况下，玻璃纤维产品应贮存在干燥、阴凉的地方，防止受潮。最佳存储条件为温度  $-10^{\circ}\text{C} \sim 35^{\circ}\text{C}$ ，相对湿度  $\leq 80\%$ 。为确保安全，避免损坏产品，托盘的堆码高度不应超过三层。当堆放两层或三层高时，要求正确地、平稳地移动上面的托盘。

Unless otherwise specified, the fiberglass products should be stored in a dry, cool and moisture-proof area. The best temperature and humidity should be maintained at  $-10^{\circ}\text{C} \sim 35^{\circ}\text{C}$  and  $\leq 80\%$  respectively. To ensure safety and avoid damage to the product, the pallets should be stacked not more than three layers high. When the pallets are stacked in two or three layers, special care should be taken to correctly and smoothly move the upper pallet.