南通复源新材料科技有限公司

NANTONG FUYUAN CARBON FIBER RECYCLING CO., LTD

FUY®再生短切碳纤维产品

FUY® Recycled Chopped Carbon Fiber Products

1、品类及主要参数 Standard specification

产品系列 Model	碳纤长度 CF length	表面改性剂种类 Sizing type	上浆剂含量 wt% Sizing ratio	体积密度，g/l Bulk density	适用基体树脂 Recommended matrix resin	
					最适 Preferable	一般 Others
FUY-110	5~6mm	聚氨酯为主组合物 PU based multi-component formula	2.0~4.0	430~460	PA66、PA6	POM、ABS
FUY-120	5~6mm	聚丙烯为主组合物 PP based multi-component formula	2.0~4.0	390~420	PP	PE、POE
FUY-130	5~6mm	环氧为主组合物 EP based multi-component formula	2.0~4.0	390~420	PC、PLA	PBT、PET、PETG ABS、POM、PPE
FUY-140	5~6mm	聚酰胺为主组合物 PA based multi-component formula	2.0~4.0	400~430	PPS	ABS
FUY-150	5~6mm	聚酰胺为主组合物 PA based multi-component formula	2.0~4.0	400~430	PPA	PA66、PA6、POM、ABS
FUY-170	5~6mm	改性 PEEK 为主组合物 Modified PEEK based multi-component formula	2.0~4.0	390~410	PEEK、PEKK、其他 PAEK 类树脂	LCP、PPA 等

备注：1）标准包装：20 公斤/箱；2）表中数据以复源实验法测得，为参考值而非保证值。

Notes: 1) 20 kg/packaging (minimum order quantity). 2) The technical data are measured by FUY's experimental method, so they are reference values rather than guaranteed values, which are only used for material selection. Please contact us for more details.

2、碳纤维等级 Grade of recycled carbon fiber

产品型号 Model	适用基体树脂 Recommended matrix resin	再生碳纤维等级 Grade of recycled carbon fiber （According to the grade of virgin carbon fiber）（依据原生碳纤维等级分类）					
FUY-110	PA66、PA6	T300	T400	T700	T800	HS	HM
FUY-120	PP	T300	T400	T700	T800	/	/
FUY-130	PC、PLA	/	T400	T700	T800	HS	HM
FUY-140	PPS	/	T400	T700	T800	HS	HM
FUY-150	PPA	/	T400	T700	T800	HS	HM
FUY-170	PEEK、PEKK、LCP 等高温树脂	/	T400	T700	T800	HS	HM

3、典型应用 Applications

增强改性塑料用，可应用于：

- ✓ 3C 电子产品 Digital products
- ✓ 3D 打印产品 3D-printing products
- ✓ 汽车部件 Automobile parts
- ✓ 机械部件 Mechanical parts
- ✓ 无人机部件 UAVparts
- ✓ 体育用品 Sports equipment



独特的米粒形状，易于喂料和分散

Unique rice-grain shape for better feeding and better dispersion in compounding

专用的表面改性剂配方，与树脂间界面结合强度高

Special sizing agent formula for better bonding with resins

4、FUY®再生短切碳纤维改性热塑性树脂参考性能 Reference properties of modified thermoplastics

树脂种类 Matrix Resin	碳纤含量 CFRatio wt.%	比重 Density g/cm³	拉伸强度 Tensile Strength MPa	拉伸模量 Tensile Modulus MPa	断裂伸长率 Tensile Elongation %	弯曲强度 Flexural Strength MPa	弯曲模量 Flexural Modulus MPa	简支梁缺口冲击强度 Charpy Impact Strength-Notched KJ/m²
PA66/CF	0	1.14	75	3100	35	72	2500	3
	20	1.23	201	13500	2.8	282	11300	16
	30	1.28	236	20700	2.4	337	16100	19
PC/CF	0	1.20	70	2350	110	90	2300	73
	20	1.28	150	13900	1.9	253	12900	13
	30	1.30	172	20200	2.1	287	19500	15
PP/CF	0	0.91	32	1500	138	44	1600	16
	20	1.00	86	8400	3.2	127	7400	15
	30	1.06	102	11300	3.0	149	10600	18

备注：数据均以复源新材实验法测得，为参考值而非保证值。应用这种材料而得出的数值来自加工细节。建议用户自行开发其应用技术并且获取和其具体应用及工艺相一致的数据。

Note: The data are measured by FUY's experimental method, which is the reference value rather than the guaranteed value. The values obtained from the application of this material come from the details of the forming process. It is recommended that users develop their own application technology and obtain data consistent with their specific application and process.

5、GRS 认证和碳足迹认证 GRS certification and carbon footprint certification

FUY®六类短切再生碳纤维产品均于 2026 年获得全球回收标准(GRS 4.0)认证以及 ISO 14067 碳足迹核查认证。All six types of FUY® Chopped recycled carbon fiber products were certified to the Global Recycled Standard (GRS 4.0) and to ISO 14067 carbon footprint in 2026.

产品名称 Product name / 对比内容 Comparison content	短切再生碳纤维（无上浆剂） Chopped recycled carbon fiber(No sizing agent)	短切再生碳纤维米粒（热塑上浆剂） Chopped recycled carbon fiber products(Thermoplastic sizing agent)	对比：原生碳纤维（连续长纤维） Comparison: Virgin carbon fiber(Continuous filament)
碳排放量 Carbon emission volume $kgCO_2e/kg$	1.71 $kgCO_2e/kg$	2.90 $kgCO_2e/kg$	19.85 kgCO2e/kg
碳排放减少率（对比原生碳纤维） Carbon emission reduction ratio (Compared with virgin carbon fiber	-91%	-85%	/

备注：GRS 认证机构为莱茵 TÜV 集团，碳足迹核查认证机构为华中智联认证(集团)有限公司。

Note: The GRS certification is issued by the TÜV Rheinland (China) Ltd., while Carbon Footprint Management System Certification is provided by Huazhong Zhilian Certification (Group)Co..Ltd..

FUY®再生短切碳纤维产品的使用注意事项 Precautions for product use

- 因碳纤维具有导电性，为防止用电事故，需对现场的各种电器进行防尘处理。Due to the conductivity of carbon fiber, various electronic and electrical equipment on site need to be protected against dust in order to prevent power accidents.
- 碳纤维或其制品沾在皮肤上可能会引起痒痛、发炎等症状，为保护呼吸器官、眼睛、皮肤，请使用相应的劳动防护用品。Carbon fiber or its products on the skin may cause itching, pain, inflammation and other symptoms. In order to protect respiratory organs, eyes and skin, please use corresponding labor protection articles.
- 其他使用说明，备有产品安全使用手册（MSDS），请向复源新材业务部索取。For other instructions, the material safety data sheets (MSDS) are available. Please ask FUY's business department for them.

备注 Notes

- 本资料列举的用途，仅是本制品的应用实例，复源新材不对其适用性、安全性做出保证。The product applications listed herein are only the application examples. FUY does not guarantee its applicability and safety.
- 使用时，请根据用途确认其安全性及相关限制等。When using the product, please confirm its safety and relevant restrictions according to its purpose.
- 建议用户事先调查自己产品的最终用途，以保证能正确使用复源新材的产品。为保证复源新材的产品不被误用或错用，建议与复源新材业务代表联系。Customers are advised to investigate the end use of their products in advance to ensure the correct use of FUY's products. In order to ensure that the FUY's products are not misused, it is recommended to contact the business representative of FUY.

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