

FUY[®] 短碳纤维米粒产品

Chopped Carbon Fibers Products

1、品类及主要参数 Standard specification

产品型号 Model	碳纤长度 CF length	表面改性剂种类 Sizing type	上浆剂含量, % 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	3mm 5mm	聚氨酯为主组合物 PU based multi-component formula	4.0-6.0	430~480	PA66、PA6	POM、ABS、PBT、PC
FUY-120	5mm	聚丙烯为主组合物 PP based multi-component formula	4.0-6.0	390~420	PP	PE、POE
FUY-130	5mm	环氧为主组合物 EP based multi-component formula	4.0-6.0	390~420	PC	PBT、ABS、PA、POM、PPE
FUY-140	5mm	聚酰胺、环氧为主组合物 PA,EP based multi-component formula	4.0-6.0	400~430	PPS	PC、PBT、ABS
FUY-150	5mm	聚酰胺为主组合物 PA based multi-component formula	4.0-6.0	400~430	PPA	POM、ABS、PBT、PC
FUY-170	3mm 5mm	改性 PEEK 为主组合物 Modified PEEK based multi-component formul	4.0-6.0	390~410	PEEK、PEKK、其它 PAEK 类树脂	LCP、PPA 等

备注：1) 碳纤维性能：拉伸强度. ≥ 4000 MPa, 拉伸模量. ≥ 240 GPa；2) 标准包装：20 公斤纸箱；3) 表中数据以复源实验法测得，为参考值而非保证值。

Notes: 1) Properties of recycled CF: T.S. ≥ 4000 MPa, T.M. ≥ 240 GPa. 2) 20 kg/packaging (minimum order quantity). 3) The technical data are measured by FUYUAN'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、典型应用 Applications

增强改性塑料用，可应用于：

- 电子数码产品 Digital products
- 笔记本电脑外壳 Notebook PCshells
- 汽车部件 Automobile parts
- 机械部件 Mechanical parts



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 compound

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 resin

3、FUY® 改性热塑性树脂的参考性能 Reference properties of modified thermoplastic resins

树脂/碳纤 Matrix Resin/CF	碳纤含量 CF Ratio wt.%	比重 Density g/cm ³	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/m ²
PA66/CF (FUY-110)	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 (FUY-130)	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 (FUY-120)	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。

Notes: The data are measured by FUYUAN'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.

FUY® 短切碳纤维产品的使用注意事项 Precautions for FUY® 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 FUYUAN'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、安全性作出保证。The product applications listed herein are only the application examples. FUYUAN 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® products. In order to ensure that the FUY® products are not misused, it is recommended to contact the business representative of FUYUAN.

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