

上禾伸企業-塑料抗靜電、靜電消散、導電類型、品項、規格介紹

SHS Enterprise - Introduction to Antistatic, Static Dissipation, and Conductivity Types of Plastics, Items, and Specifications

類型 type 抗靜電功效添加種類-簡述
Types of Antistatic Additives - Brief Description

Type

a. 經濟型抗靜電規格
Economic Antistatic Specifications

- 塑料改質具抗靜電性能，無法抗水洗使用，無法在無濕度環境使用，抗靜電功效期限較短，可染色
- Modified plastics have antistatic properties, but cannot be used in water-washable environments or in dry conditions. Their antistatic effect is short-lived, and they can be dyed

功能時效(年) → Functional validity (years)		1~2 年間，不保固 No warranty for 1-2 years.	表面阻抗範圍Ω → Surface impedance range	$10^8 \sim 11$
塑料 plastic	規格 Specification	簡介 Introduction		
ABS	IRAC5C-E1	抗靜電 Antistatic		
PP	AAC5Z-M7L	共聚，抗靜電，透明 Copolymer, antistatic, transparent		
PP	AAC5Z-M7	均聚，抗靜電 Homopolymer, Antistatic		
PP	AAC5Z-M7C	共聚，抗靜電 copolymer, antistatic		
PP	AAC5C-M1	均聚，抗靜電 Homopolymer, Antistatic		
PP	AHAC5C-M1	均聚，抗靜電，耐熱級 Homopolymer, antistatic, heat resistant 1		
PP	AAC5C-M1C	共聚，抗靜電 copolymer, antistatic		
PP	AGAC52C ~ 58C -M1	均聚，抗靜電，添加玻纖 10~40%，剛性強化，耐熱 Homopolymer, antistatic, with 10-40% glass fiber added for rigidity and heat resistance		
HDPE	HUAC5C-E1	高密度 PE，抗靜電 High-density PE, antistatic		
HDPE	HUAC5Z-E5	高密度 PE，抗靜電 High-density PE, antistatic		
HDPE	HUGAC52C ~ 56C -E2	高密度 PE，抗靜電，添加玻纖 10~30%，剛性強化 High-density PE, antistatic, with 10-30% glass fiber added for rigidity reinforcement		
LDPE	LUAC5C-F1	低密度 PE，抗靜電 Low-density PE, antistatic		
POM	GAC5C-E1	工程塑料，抗靜電 Engineering plastics, antistatic		
PA6	DAC5C-M13	工程塑料，抗靜電 Engineering plastics, antistatic		
PA6	DGAC52C ~ 56C -M13	工程塑料，抗靜電，添加玻纖 10~30%，剛性強化，耐熱 Engineering plastic, antistatic, with 10-30% glass fiber added for rigidity reinforcement		



		and heat resistance
PBT	KAC5C-D4	工程塑料·抗靜電 Engineering plastics, antistatic
PBT	KGAC52C ~ 56C -D5	工程塑料·抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Engineering plastic, antistatic, with 10-30% glass fiber added for rigidity reinforcement and heat resistance
PC/ABS	BCGAC52C ~ 56C -M22	合金塑料·抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Alloy plastic, antistatic, with 10-30% glass fiber added for rigidity and heat resistance
TPU	1WAC1885A ~ 1865D -E1	彈性體塑料·硬度 85A~65D·酯類射出級·抗靜電 Elastomer plastic, hardness 85A~65D, ester-based injection grade, antistatic
TPU	1WAC2885A ~ 2865D -E11	彈性體塑料·硬度 85A~65D·醚類射出級·抗靜電 Elastomer plastic, hardness 85A~65D, ether injection grade, antistatic
TPE	3WAC2650 ~ 2685A -B8	彈性體塑料·硬度 50A~85A·SEBS·抗靜電 Elastomer plastic, hardness 50A~85A, SEBS, antistatic
TPV	9WAC450A ~ 490A -B4	彈性體塑料·硬度 50A~90A·抗靜電 Elastomer plastic, hardness 50A~90A, antistatic

長效型抗靜電規格

- 塑料改質具抗靜電性能·可抗水洗特性·可在低濕度環境使用·抗靜電功效期限較長·可染色

Type
b.

Long-lasting antistatic specifications

- Modified plastic with antistatic properties, washable, suitable for use in low-humidity environments, long-lasting antistatic effect, and dyeable

功能時效(年) → Functional validity (years)		1~3 年間·不保固 No warranty for 1-3 years.	表面阻抗範圍Ω → Surface impedance range	10 ⁸ ~10 ¹⁰
塑料 plastic	規格 Specification	簡介 Introduction		
ABS	IAC52F-E8	抗靜電 Antistatic		
EVA	4WAC5F-B1	抗靜電 Antistatic		
TPU	1W1985A ~ 1965D -E5	彈性體塑料·硬度 85A~65D·酯類射出級·抗靜電 Elastomer plastic, hardness 85A~65D, ester-based injection grade, antistatic		
TPU	1W2985A ~ 2965D -E5	彈性體塑料·硬度 85A~65D·醚類射出級·抗靜電 Elastomer plastic, hardness 85A~65D, ether injection grade, antistatic		
TPE	3WA2650A ~ 2685A -B9	彈性體塑料·硬度 50A~85A·SEBS·抗靜電 Elastomer plastic, hardness 50A~85A, SEBS, antistatic		
TPEE	7WAC540D ~ 570D -B2	彈性體塑料·硬度 40D~70D·抗靜電 Elastomer plastic, hardness 40D~70D, antistatic		
TPV	9WAC450A ~ 490A -B5	彈性體塑料·硬度 50A~90A·抗靜電 Elastomer plastic, hardness 50A~90A, antistatic		

**高分子永久型抗靜電規格透明型**

- 塑料改質具抗靜電性能，可抗水洗特性，可在無濕度環境使用，持續抗靜電功效，透明

Type

c.

Permanent Antistatic Polymer, Transparent Type

- Modified plastic with antistatic properties, washable, suitable for use in dry environments, provides continuous antistatic effect, transparent

功能時效(年) → Functional validity (years)	5 年或以上 5 years or more	表面阻抗範圍Ω → Surface impedance range	10 ⁹⁻¹⁰
塑料 plastic	規格 Specification	簡介 Introduction	
ABS	IAC5Z-E3L	永久抗靜電，透明級 Permanent antistatic, transparent	

高分子永久型抗靜電規格可染色型

- 塑料改質具抗靜電性能，可抗水洗特性，可在無濕度環境使用，持續抗靜電功效，可染色

Type

d.

Permanent Antistatic Polymer, Dyeable Type

- Modified plastic with antistatic properties, washable, usable in dry environments, provides continuous antistatic effects, and is dyeable

功能時效(年) → Functional validity (years)	5 年或以上 5 years or more	表面阻抗範圍Ω → Surface impedance range	10 ⁸⁻¹⁰
塑料 plastic	規格 Specification	簡介 Introduction	
ABS	IAC5G-E6	永久抗靜電 Permanent antistatic	
PP	AAC5G-M5	均聚，永久抗靜電 Homopolymer, permanent antistatic	
PP	AGAC52G ~ 54G -M5	均聚，永久抗靜電，添加玻纖 10~40%，剛性強化，耐熱 Homopolymer, permanently antistatic, with 10-40% glass fiber added for rigidity and heat resistance	
PP	AAC5G-M5C	共聚，永久抗靜電 Copolymer, permanent antistatic	
PP	AGAC52G ~ 54G -M5C	共聚，永久抗靜電，添加玻纖 10~40%，剛性強化，耐熱 Copolymer, permanently antistatic, with 10-40% glass fiber added for rigidity and heat resistance	
HDPE	HUACG-E4	高密度 PE，永久抗靜電 High-density PE, permanent antistatic	
PA6	DAC5G-M67	工程塑料，永久抗靜電	



		Engineering plastics, permanently antistatic
PA6	DGAC52G ~ 56G -M7	工程塑料·永久抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Engineering plastics, permanently antistatic, with 10-30% glass fiber added for rigidity reinforcement, heat resistant
PA66	EAC5G-M2	工程塑料·永久抗靜電 Engineering plastics, permanently antistatic
PA66	EGAC52G ~ 56G -M6	工程塑料·永久抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Engineering plastics, permanently antistatic, with 10-30% glass fiber added for rigidity reinforcement and heat resistance
PA12	FAC5G-C2	工程塑料·永久抗靜電 Engineering plastics, permanently antistatic
PA12	FGAC52G ~ 56G -C3	工程塑料·永久抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Engineering plastics, permanently antistatic, with 10-30% glass fiber added for rigidity reinforcement and heat resistance
POM	GAC5Z-C1	工程塑料·永久抗靜電 Engineering plastics, permanently antistatic
PC	BRAC5G—M1	工程塑料·永久抗靜電·耐衝 Engineering plastics, permanently antistatic, impact resistant
PC	BAC52G—M1H	工程塑料·永久抗靜電·耐熱 Engineering plastics, permanently antistatic, heat resistant
PC	BGAC521G ~ 561G -M1	工程塑料·永久抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Engineering plastics, permanently antistatic, with 10-30% glass fiber added for rigidity reinforcement and heat resistance
PC	BGRAC52G3 ~ 56G3 -M9	工程塑料·永久抗靜電·添加玻纖 10~30%·剛性強化·耐衝 Engineering plastics, permanently antistatic, with 10-30% glass fiber added for rigidity and impact resistance
PC/ABS	BC5A5G-M6	合金塑料·永久抗靜電 Alloy plastic, permanently antistatic
PC/ABS	BGAC52G ~ 56G -M6	合金塑料·永久抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Alloy plastic, permanently antistatic, with 10-30% glass fiber added for rigidity and heat resistance
PC/PBT	KAC5G-M1	合金塑料·永久抗靜電 Alloy plastic, permanently antistatic
PC/PBT	KGAC52G ~ 56G -M11	合金塑料·永久抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Alloy plastic, permanently antistatic, with 10-30% glass fiber added for rigidity and heat resistance
PBT	BKAC5G-C1	工程塑料·永久抗靜電 Engineering plastics, permanently antistatic
PBT	BKG52G ~ 56G -C2	工程塑料·永久抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Engineering plastics, permanently antistatic, with 10-30% glass fiber added for rigidity reinforcement and heat resistance
TPU	1WAC2985A ~ 2965D	彈性體塑料·硬度 85A~65D·醚類射出級·永久抗靜電



	-B9	Elastomer plastic, hardness 85A~65D, ether injection grade, permanent antistatic
TPU	1WAC1985A ~ 1965D -B8	彈性體塑料·硬度 85A~65D·酯類射出級·永久抗靜電 Elastomer plastic, hardness 85A~65D, ester-based injection grade, permanently antistatic
TPE	3WAC2650A ~ 2685A -C1	彈性體塑料·硬度 50A~85A·SEBS·永久抗靜電 Elastomer plastic, hardness 50A~85A, SEBS, permanent antistatic
TPEE	7WAC540D ~ 570D -B3	彈性體塑料·硬度 40D~70D·永久抗靜電 Elastomer plastic, hardness 40D~70D, permanently antistatic
TPV	9WAC450A ~ 4 90A -C2	彈性體塑料·硬度 50A~90A·永久抗靜電 Elastomer plastic, hardness 50A~90A, permanently antistatic

奈米碳管(CNT)規格

- 塑料經奈米碳管改質具抗靜電、導電性能，可在無濕度環境使用，高清潔度，塑料不析出碳黑汙染，黑色

Carbon nanotube (CNT) Specifications

- Plastics modified with carbon nanotubes possess antistatic and conductive properties, allowing for use in humidity-free environments. They offer high cleanliness, do not release carbon black pollution, and are black in color

Type
e.

功能時效(年) → Functional validity (years)		與塑膠共存 Living with plastic	表面阻抗範圍Ω → Surface impedance range	10 ⁴⁻⁸
塑料 plastic	規格 Specification	簡介 Introduction		
ABS	INC5D-C7 BK	導電、永久抗靜電 Conductive, permanent antistatic		
PP	ANC51-M3 BK	導電、永久抗靜電 Conductive, permanent antistatic		
PP	AGNC54 ~ 59 -M4 BK	導電、永久抗靜電，添加玻纖 13~45%，剛性強化，耐熱 Conductive, permanently antistatic, with 13-45% glass fiber added for rigidity and heat resistance		
PA6	DNC5D-M5 BK	工程塑料，導電、永久抗靜電 Engineering plastics, conductive, permanently antistatic		
PA6	DGNC52D ~ 56D -M5 BK	工程塑料，導電、永久抗靜電，添加玻纖 10~30%，剛性強化，耐熱 Engineering plastic, conductive, permanently antistatic, with 10-30% glass fiber added for rigidity reinforcement and heat resistance.		
PA66	ENC5D-M5 BK	工程塑料，導電、永久抗靜電 Engineering plastics, conductive, permanently antistatic		
PA66	EGNC52D ~ 58D -M4 BK	工程塑料，導電、永久抗靜電，添加玻纖 10~40%，剛性強化，耐熱 Engineering plastic, conductive, permanently antistatic, with 10-40% glass fiber added for rigidity reinforcement and heat resistance		



PA12	FNC5D-B5 BK	工程塑料·導電·永久抗靜電 Engineering plastics, conductive, permanently antistatic
PA12	FGNC52D ~ 56D -B6 BK	工程塑料·導電·永久抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Engineering plastic, conductive, permanently antistatic, with 10-30% glass fiber added for rigidity reinforcement and heat resistance
PBT	KNC5D-E1 BK	工程塑料·導電·永久抗靜電 Engineering plastics, conductive, permanently antistatic
PBT	KGNC52D ~ 56D -E2 BK	工程塑料·導電·永久抗靜電·添加玻纖 10~30%·剛性強化·耐熱 Processed plastic, conductive, permanently antistatic, with 10-30% glass fiber added for rigidity and heat resistance
PC	BNC5D-E42 BK	工程塑料·導電·永久抗靜電 Engineering plastics, conductive, permanently antistatic
PC	BGNC52D ~ 56D -E5 BK	工程塑料·導電·永久抗靜電·添加玻纖 10~30%·剛性強化 Engineering plastic, conductive, permanently antistatic, with 10-30% glass fiber added for increased rigidity
PC/ABS	BCNC5D-G1 BK	合金塑料·導電·永久抗靜電 Alloy plastic, conductive, permanently antistatic
PC/PBT	BKNC5D-M2	合金塑料·導電·永久抗靜電 Alloy plastic, conductive, permanently antistatic
PEI	SNC5D-B1 BK	高溫塑料·導電·永久抗靜電 High-temperature plastic, conductive, permanently antistatic
PEI	SGNC52D ~ 56D -B2 BK	高溫塑料·導電·永久抗靜電·添加玻纖 10~30%·剛性強化·耐熱 High-temperature plastic, conductive, permanently antistatic, with 10-30% glass fiber added for rigidity and heat resistance
TPU	1WNC2985A ~ 2965D -B7E BK	彈性體塑料·硬度 85A~65D·醚類押出級·導電·永久抗靜電 Elastomer plastic, hardness 85A~65D, ether extrusion grade, conductive, permanently antistatic
TPU	1WNC1985A ~ 1965D -D3 BK	彈性體塑料·硬度 85A~65D·酯類射出級·導電·永久抗靜電 Elastomer plastic, hardness 85A~65D, ester-based injection grade, conductive, permanently antistatic
TPU	1WTSWNC19Z -F3 BK	彈性體塑料·硬度 64D·酯類射出級·導電·永久抗靜電·耐磨·抗重壓 Elastomer plastic, hardness 64D, ester-based injection grade, conductive, permanently antistatic, wear-resistant, and resistant to heavy pressure
TPEE	7WNC543D ~ 72D -B1 BK	彈性體塑料·硬度 43D~72D·射出級·導電·永久抗靜電 Elastomer plastic, hardness 43D~72D, injection grade, conductive, permanently antistatic

Type

f.

導電碳黑(CB)規格

- 塑料經導電碳黑改質具抗靜電·導電性能·可在無濕度環境使用·黑色

Conductive Carbon Black (CB) Specifications

- Plastics modified with conductive carbon black possess antistatic and conductive properties, allowing for use in dry environments. Black

功能時效(年) → Functional validity (years)		5 年或以上 5 years or more	表面阻抗範圍Ω → Surface impedance range	10 ³⁻⁸
塑料 plastic	規格 Specification	簡介 Introduction		
ABS	ICB595-E8 BK	導電、永久抗靜電 Conductive, permanent antistatic		
PP	ACB5Z-D9 BK	導電、永久抗靜電 Conductive, permanent antistatic		
PS	HCB5Z-A1 BK	導電、永久抗靜電 Conductive, permanent antistatic		
PC	BCB5Z-M25 BK	工程塑料，導電、永久抗靜電 Engineering plastics, conductive, permanently antistatic		
POM	GCB52-C1 BK	工程塑料，導電、永久抗靜電 Engineering plastics, conductive, permanently antistatic		

碳纖維(CF)規格

- 塑料經碳纖維填充剛性強化、耐熱，本體具抗靜電、導電機能，可在無濕度環境使用，黑色

Type
g.

Carbon Fiber (CF) Specifications

- Plastic reinforced with carbon fiber for rigidity and heat resistance; the material itself is antistatic and conductive, allowing for use in dry environments. Black

功能時效(年) → Functional validity (years)		與塑膠共存 Living with plastic	表面阻抗範圍Ω → Surface impedance range	10 ³⁻⁸
塑料 plastic	規格 Specification	簡介 Introduction		
ABS	IC51 ~ 54 -C6 BK	添加碳纖 5~20%，剛性強化 Adding 5-20% carbon fiber enhances rigidity		
PP	AC51 ~ 56 -D55 BK	添加碳纖 5~30%，剛性強化，耐熱 Adding 5-30% carbon fiber enhances rigidity and heat resistance		
HDPE	HUC51 ~ 54 -C5 BK	高密度 PE，添加碳纖 5~20%，剛性強化 High-density PE with 5-20% carbon fiber added for increased rigidity		
POM	GC12-A6 BK GC14-A6 BK	工程塑料，添加碳纖 10 / 20%，剛性強化 Engineering plastics, with 10/20% carbon fiber added for increased rigidity		
PA6	DC51 ~ 56 -G2 BK	工程塑料，添加碳纖 5~30%，剛性強化，耐熱 Engineering plastics with 5-30% carbon fiber added for increased rigidity and heat		



		resistance
PA66	EC51 ~ 56 -D55 BK	工程塑料，添加碳纖 5~30% · 剛性強化 · 耐熱 Engineering plastics with 5-30% carbon fiber added for increased rigidity and heat resistance
PA12	FC11 ~ 16 -B3 BK	工程塑料，添加碳纖 5~30% · 剛性強化 · 耐熱 Engineering plastics with 5-30% carbon fiber added for increased rigidity and heat resistance
PBT	KC51 ~ 56 -D3 BK	工程塑料，添加碳纖 5~30% · 剛性強化 · 耐熱 Engineering plastics with 5-30% carbon fiber added for increased rigidity and heat resistance
PC	BC51 ~ 56 -30 BK	工程塑料，添加碳纖 5~30% · 剛性強化 · 耐熱 Engineering plastics with 5-30% carbon fiber added for increased rigidity and heat resistance
PC/ABS	BCC51 ~ 54 -E55 BK	合金塑料，添加碳纖 5 ~ 20% · 剛性強化 Alloy plastic with 5-20% carbon fiber added for increased rigidity.
PC/PBT	BKC51 ~ 56-M3 BK	合金塑料，添加碳纖 5 ~ 30% · 剛性強化 Alloy plastic with 5-30% carbon fiber added for increased rigidity
PESU	E2010-C52 ~ 56 BK	高溫塑料，添加碳纖 10~30% · 剛性強化 High-temperature plastics, with 10-30% carbon fiber added, rigidity-strengthened grade
PPS	MC14-A1 BK MC16-A1 BK	高溫塑料，添加碳纖 10 / 20% · 剛性強化 High-temperature plastics, with 10/20% carbon fiber added for increased rigidity
PEI	SC12 ~ 16 -A55 BK	高溫塑料，添加碳纖 10~30% · 剛性強化 High-temperature plastics, with 10-30% carbon fiber added, rigidity-strengthened grade

※尚有其他特殊規格，歡迎來電、來信索取-抗靜電塑料相關物性技術資料！

Other special specifications are also available. Please contact us by phone or email to request relevant physical property technical information for antistatic plastics!

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