

技術資料表
Technical Data Sheet

ER-J14ETYPE

高耐衝，耐低溫、耐寒，耐熱老化，高延伸率，押出成型系列

High impact resistance, low temperature resistance, cold resistance, heat aging resistance, high elongation, extrusion molding series

樹酯 Resin	PA66 Polyamide66			
規格 Grade	ER54-J14E	ER56-J14E	ER571-J14E	ER57E-J14E
來源 source	上禾伸企業			

描述 Description

■高耐衝擊性，富有柔韌性，常溫耐衝可達 75~100 kg-cm/cm，高耐低溫可達-30-50°C範圍，-30-50°C耐寒性衝擊可達 30~45kg-cm/cm。

High impact resistance, rich flexibility, impact resistance at room temperature can reach 75~100 kg-cm/cm, high low temperature resistance can reach -30-50°C range, and impact resistance at -30-50°C can reach 30~45kg-cm/cm.

■在自然環境中，超高延伸率，若在低濕度下環境中，仍可提供超高延伸率，延伸率可達 35~150%。

In the natural environment, it has ultra-high elongation. If it is in a low humidity environment, it can still provide ultra-high elongation, and the elongation can reach 35~150%.

■塑料複合、改質後吸濕率也變低，相對降低塑料蠕變性，物理性能變化較低。

After plastic compounding and modification, the moisture absorption rate also becomes lower, which relatively reduces the creep of plastic and the change of physical properties is relatively low.

■優越的滑動低摩擦係數與良好的耐磨性和耐刮擦性能。

Excellent sliding low friction coefficient with good wear and scratch resistance.

■良好的耐熱老化性，產品可以使用在長期的中高溫環境中。

Good heat aging resistance, the product can be used in long-term medium and high temperature environments.

■良好的耐化學性對油及化學品抵抗性佳。

Good chemical resistance Good resistance to oil and chemicals.

■極佳的電氣特性、耐水解性。

Excellent electrical properties and hydrolysis resistance.

■基礎塑料為中高黏度 PA66，產品適合押出加工成型。

The base plastic is medium-to-high viscosity PA66, making the product suitable for extrusion molding.

成型模式	押出成型
Forming mode	Extrusion molding

**特性 Properties****ER-J14E** 高耐衝、耐低溫、耐熱老化、
高延伸率、射出、押出成型系列Impact resistance, low temperature resistance, heat
aging resistance, high elongation, injection and
extrusion molding series**ER54-J14E****ER56-J14E****ER571-
J14E****ER57E-
J14E**

項目 Project	標準數值			
測試標準 Testing standards/單位 Unit /	Typical Value			
比重 Specific Gravity	1.09	1.07	1.05	1.03
ASTM D79 / g/cm ³				
流動指數 MFR,(MI) 300×5KG	3.5	3.2	2.8	2.5
ASTM D1238 / g/10min				
收縮率-平行 Mold Shrinkage MD	1.4	1.4	1.4	1.4
收縮率-垂直 ⊥ Mold Shrinkage TD	~1.8	~1.8	~1.8	~1.8
3 mm t / % /				
耐燃性 Flammability	HB	HB	HB	HB
顏色 Color	Natural color	Natural color	Natural color	Natural color

機械特性 Mechanical properties

伸張降伏強度 Tensile Strength at Yield

ASTM D638 / kg/ cm²

600

530

480

460

伸張斷裂強度 Tensile Strength at Break

ASTM D638 / kg/ cm²

450

370

290

270

拉伸模數 Tensile Modulus

ASTM D638 / kg/ cm²

23000

21000

17000

16500

斷裂伸張率 Tensile Elongation at Break

ASTM D638 / %

35

60

95

150

彎曲強度 Flexural Strength

ASTM D790 / kg/ cm²

840

700

510

490

彎曲模數 Flexural Modulus

ASTM D790 / kg/ cm²

18800

17000

16000

12000

衝擊強度(缺口式) IZOD Impact (notched)

ASTM D256 / 23°C kg-cm/cm

75

85

85

100

ASTM D256 / -30°C kg-cm/cm

30

40

40

45

硬度 Rockwell/Shore Hardness

ASTM D785 / D2240 / D

74D

70D

70D

67D

熱力特性 Heat properties熱變型溫度 4.6kg/ cm² H D T

ASTM D648 / °C

150

145

140

135

熱變型溫度 18.6kg/ cm² H D T

ASTM D648 / °C

67

65

62

60

熔融溫度 Melting temperature

DSC / °C

262

260

260

260

塑料狀態 plastic state

乾燥 dry

成型條件 Molding conditions

烘乾溫度 Drying temp. °C

80~90

烘乾時間 Drying time H

2~4

進料區溫度 Feed zone temp. °C

255~280

壓縮區溫度 Compression zone temp. °C

265~290

計量區溫度 Metering zone temp. °C

275~300

噴嘴溫度 Nozzle temp. °C

275~305

模具溫度 Mold temp. °C

80

射出壓力 Injection pressure Kg/ cm²

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