PSM International

INSERTS FOR PLASTICS

塑膠專用螺母

Wherever you are... *we have the solution!*

ADVANTAGES

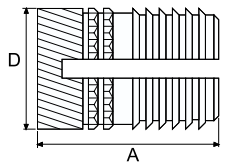
- Degree of self locking action on screw
- High pull-out and torque performance
- Easy press-in insertion
- Suitable for most thermoplastics

特點

- 適用於熱塑性或射出時流動力强之塑膠。
- 具高扭拉力及防鬆之功能。
- 埋入方式簡單，可用衝、壓床壓入即可。

SELECTION OF INSERT

INSERTS



PRODUCT CODE [PLK]

ISO METRIC （公制）

Unit: Millimetres

Product Code 型	Thread Size 螺牙	Insert Length A 標準長度	Preferred Other Length A* 特殊長度		Insert ø D 外徑	Rec.Hole Size -0.00 +0.10 孔直徑	Min. Wall Thickness 最少肉厚
PLK-B	M2	4.0	-	-	3.7	3.2	1.6
	M2.5	5.8	4.0	-	4.5	4.0	2.0
	M3	5.8	4.0	-	4.5	4.0	2.0
	M3.5	7.2	4.0	-	5.3	5.8	2.4
	M4	8.2	5.8	-	6.2	5.6	2.8
	M5	9.5	5.8	8.2	6.9	6.4	3.2
	M6	12.7	7.2	9.5	8.5	8.0	4.0
	M8	12.7	-	-	10.1	9.6	4.8

Other lengths possible on quotation. 其它長度也可估價。

UNIFIED （英制）

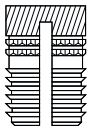
Unit: Inches

Product Code 型	Thread Size 螺牙	Insert Length A 標準長度	Preferred Other Length A* 特殊長度		Insert ø D 外徑	Rec.Hole Size -0.000 +0.004 孔直徑	Min. Wall Thickness 最少肉厚
PLK-B	2-56	.157	-	-	.146	.126	.063
	4-40	.228	.157	-	.177	.157	.079
	6-32	.283	.157	-	.209	.189	.094
	8-32	.323	.228	-	.242	.220	.110
	10-24	.374	.228	.322	.272	.252	.126
	10-32	.374	.228	.322	.272	.252	.126
	1/4-20	.500	.283	.374	.335	.315	.157
	1/4-28	.500	.283	.374	.335	.315	.157
	5/16-18	.500	-	-	.398	.378	.189
	5/16-24	.500	-	-	.398	.378	.189

Other lengths possible on quotation. 其它長度也可估價。

STANDARD MATERIAL: BRASS (B) 標準材質：黃銅 (B)
Other materials possible on quotation 其它長度也可估價。

SPECIFYING AN INSERT

INSERTS (METRIC)							
	PLK	–	B	–	M3	×	4.0
	PRODUCT CODE 型號		MATERIAL 材質		THREAD SIZE 螺牙		PREFERRED OTHER LENGTH 特殊長度
	PLK	–	B	–	632	×	.175
INSERTS (INCHES)							

BOSS DESIGN SPECIFICATION

HOLE PREPARATION

Moulded holes are recommended wherever possible. The taper on a moulded hole should be 1° inclusive and the hole diameter recommended should apply at the point reached by the bottom of the insert. Drilled holes may be used but performance may be reduced when compared with a moulded hole. The top of the hole should not be chamfered or counterbored and care must be taken to avoid bell mouthing. Hole diameter tolerance: -0.00 +0. 10mm.

塑膠孔徑之設計

1. 各規格螺母之塑膠建議孔徑，請參考規格表。
2. 塑膠孔徑內之脫模斜度應於 1 度以內。
3. 塑膠內孔徑之公差值應設計在 -0.00+0.10mm 的範圍。
4. 塑膠孔上方可以不設計導角。

DIRECTION OF LOADING

The Fixing screw must always be assembled From the knurled end of the component to develop the necessary expansion action.

裝置方向

螺絲組裝時得從正向進入，使其擴大表面張力。

INFLUENCE OF SCREW DIMENSIONS

It is important that the fixing screw fully penetrates the insert in order to achieve full expansion, screw length should therefore be calculated to ensure that this condition is met before final clamp torque is applied.

螺絲尺寸的影響

組裝時螺絲長度最好能配合螺母高度，以達到最佳的扭力值。

WALL THICKNESS

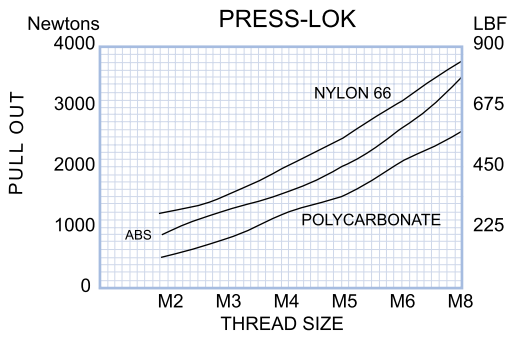
A general guide to minimum wall thickness is given in the data table but this will vary depending upon the nature of the plastic. Where thinner walls are required these can often be accommodated, but consultation with the P.S.M Technology Centre or Local Sales Office and pre-production testing is strongly advised.

塑膠孔肉厚

1. 建議肉厚，請參考規格表。
2. 肉厚可視不同塑膠材質，而略作調整，但請先與已 P.S.M 技術人員聯系，必要時我們將協助測試及作最適當之建議。

PERFORMANCE DATA

The complexity of materials and variations in service conditions make it impossible to detail fastener performance for specific applications. The chart below gives a general guide and show the relative performance of the inserts in the range.



測試數據

1. P.S.M 使用各種精密之測試儀器，針對常用之塑膠材料作出各類型螺母可承受之拉力的測試參考數據。
2. P.S.M 爲服務客户，非常歡迎客户委托代作測試，我們將提供完整及詳盡之測試報告及必要之建議。