



# PEEK Plates

## Standard Type

PEEK is a super Engineered Plastic with a variety of excellent features including high heat and chemical resistance. New finish variations are now available in addition to the conventional saw cut.

\*Details of color samples and features, see P.3070

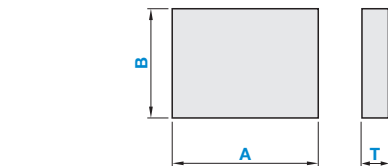
### PEEK Plates – Standard Type



| Type | Grade               | Color     | Operating Ambient Temperature |
|------|---------------------|-----------|-------------------------------|
| PKA  | Standard            | Ash Brown | -50~250°C                     |
| PKAH | Sliding             | Black     |                               |
| PKCA | Electric Conductive | Black     | Ambient Temp.: -250°C         |

The material is not filled with glass fiber.

| Dimension Tolerance of A and B |                          |
|--------------------------------|--------------------------|
| A, B Unit: mm                  | A, B Dimension Tolerance |
| ~99                            | ±0.5                     |
| 100~250                        | ±0.75                    |
| 251~                           | ±1.0                     |



Material: PEEK

### T Dimension Tolerance, Rate of Camber & Torsion

| T        | T Dimension Tolerance |        |        | Rates of Camber & Torsion per 1,000 mm |
|----------|-----------------------|--------|--------|--|
|          | PKA                   | PKAH   | PKCA   |  |
| 1        | +0.1~+0.5             | —      | —      | —                                      |
| 2, 3     | ±0.3                  | —      | —      | —                                      |
| 5, 8, 10 | 0~+1.1                | 0~+1.1 | 0~+1.1 | 1.2% or Less                           |
| 16, 20   | —                     | —      | 0~+1.7 | —                                      |
| 25       | 0~+1.7                | —      | —      | 0.8% or Less                           |

| Finish   | 4 Sides         |               | Top / Bottom    |               |
|--|-----------------|---------------|-----------------|---------------|
|  | Drilling Method | Finish Symbol | Drilling Method | Finish Symbol |
| Circular Sawing                                | Circular Sawing | ✓             | Material        | ~             |
| Guaranteed Perpendicularity of Circular Sawing | Circular Sawing | ✓             | Material        | ~             |
| 4-Side Milling etc. (4F)                       | Milling etc.    | ✓             | Material        | ~             |
| 6-Surface Milling etc. (6F)                    | Milling etc.    | ✓             | Milling etc.    | ✓             |
| Upper-Lower Surface Milling etc. (2F)          | Circular Sawing | ✓             | Milling etc.    | ✓             |

### Precision Guarantee

| Finish   | Per 100 mm        |                                     |
|--|-------------------|-------------------------------------|
|  | Width Parallelism | Perpendicularity of Reference Plane |
| Guaranteed Perpendicularity of Circular Sawing | 0.1               | 0.1                                 |
| 4-Side Milling etc. (4F)                       | 0.1               | 0.1                                 |
| 6-Surface Milling etc. (6F)                    | 0.1               | 0.1                                 |

Reference plane stickers are attached to 4-side milled plates.

### Standard Type

| Type  | Finish Selection               | Part Number                    |  | Dimension Range by Material        | A                              | B                | T                |                  |
|---|--------------------------------|--------------------------------|--|------------------------------------|--------------------------------|------------------|------------------|------------------|
|   |                                | T Dimension Tolerance          | A, B Dimension Tolerance                   |                                    |                                |                  |                  |                  |
| PKA Standard<br>PKAH Sliding<br>PKCA Conductive | —                              | Not Available                  | Not Available                              | Circular Sawing                    | 1 mm Increment                 |                  | Selection        |                  |
|   |                                |                                |  |                                    | PKA                            | 20-500 20-400    | 1 2 3 5 8 10     |                  |
|   |                                |                                |  |                                    | PKAH                           | 20-250 20-150    | 5 8 10           |                  |
|   | NT                             | Not Available                  | T5, 8, 10<br>Q 0+0.3<br>N ±0.2<br>M -0.3-0 | T16, 20<br>0+0.4<br>±0.3<br>-0.4-0 | T25<br>0+0.5<br>±0.4<br>-0.5-0 | 0.1 mm Increment |                  | Selection        |
|   |                                |                                |  |                                    |                                | PKA              | 20-300 20-200    | 5 8 10           |
|   |                                |                                |  |                                    |                                | PKAH             | 20-250 20-150    | 5 8 10           |
|   | 4F                             | Not Available                  | Q 0+0.2<br>N ±0.1<br>M -0.2-0              | —                                  | 4-Side Milling etc. (4F)       | 0.1 mm Increment |                  | Selection        |
|   |                                |                                |  |                                    |                                | PKA              | 10-300 10-200    | 5 8 10           |
|   |                                |                                |  |                                    |                                | PKAH             | 10-250 10-150    | 5 8 10           |
|   | 6F                             | Q 0+0.2<br>N ±0.1<br>NM -0.2-0 | Q 0+0.2<br>N ±0.1<br>M -0.2-0              | —                                  | 6-Surface Milling etc. (6F)    | 0.1 mm Increment |                  | 0.1 mm Increment |
|   |                                |                                |  |                                    |                                | PKA              | 10-300 10-200    | 5-9              |
|   |                                |                                |  |                                    |                                | PKAH             | 10-250 10-150    | 9.1-24           |
| 2F  | Q 0+0.2<br>N ±0.1<br>NM -0.2-0 | Not Available                  | —  | Upper-Lower Surface Milling etc.   | 1 mm Increment                 |                  | 0.1 mm Increment |                  |
|   |                                |                                |  |                                    | PKA                            | 20-250 20-150    | 5-24             |                  |
|   |                                |                                |  |                                    | PKAH                           | 20-250 20-150    | 5-9              |                  |
| PKCA  | 20-250 20-150                  | 9.1-19                         |  |                                    |                                |                  |                  |                  |

10≤A-C(2C) or B-C(2C)

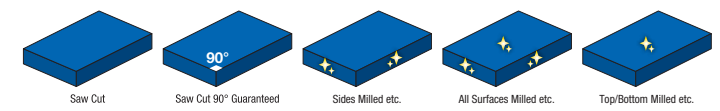
| Part Number Example                            | Part Number | A       | B       | T      |
|--|-------------|---------|---------|--------|
| Circular Sawing                                | PKA         | - 300   | - 200   | - 5    |
| Guaranteed Perpendicularity of Circular Sawing | PKANTQ      | - 200.5 | - 100.5 | - 10   |
| 4-Side Milling etc.                            | PKA4FN      | - 150.5 | - 100.3 | - 15   |
| 6-Surface Milling etc.                         | PKA6FMM     | - 100.3 | - 90.5  | - 10.5 |
| Upper-Lower Surface Milling etc.               | PKA2FQ      | - 80    | - 50    | - 5    |

| Part Number Alterations | Part Number | A     | B     | T    | (CRA...etc.) |
|-------------------------|-------------|-------|-------|------|--------------|
|                         | PKA         | - 100 | - 100 | - 10 | - CRA10      |

| Alterations | Corner Radius  |     | Corner Cut  |     |
|-------------|--|-----|---|-----|
|             | CRA  | CRC | CCA   | CCD |
| Code        | CRA, CRB, CRC, CRD   |     | CCA, CCB, CCC, CCD  |     |
| Spec.       | Adds radius to any corner.<br>R=5 mm Increment 10≤A(B)-R(2R)<br>5≤CRA, CRB, CRC, CRD≤100<br>Ordering Code: (Ex.) Adds R10 at the corner of A and C. CRA10-CRC10<br>Not applicable to 4-side milling etc. or 6-surface milling etc..<br>Available for Standard Type only. |     | Cuts any corners.<br>10≤A-C(2C) or B-C(2C) 5≤Corner Cuts≤50<br>5≤Corner Cut≤50<br>Ordering Code: (Ex.) When the corners of A and D are cut by C5-CCAS-CCD5<br>Not applicable to 4-side milling etc. or 6-surface milling etc..<br>Available for Standard Type only.<br>5 mm Increment |     |

# PEEK Plates

## Pre-Drilled Type



Milled\* = By using a milling cutter or router/planer

### PEEK Plates – Pre-Drilled Type

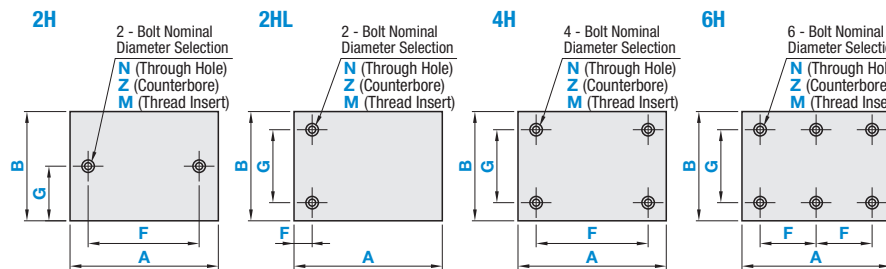


| Type | Grade               | Color     | Operating Ambient Temperature |
|------|---------------------|-----------|-------------------------------|
| PKA  | Standard            | Ash Brown | -50~250°C                     |
| PKAH | Sliding             | Black     |                               |
| PKCA | Electric Conductive | Black     | Ambient Temp.: -250°C         |

The material is not filled with glass fiber.

| Dimension Tolerance of A & B |                          |
|------------------------------|--------------------------|
| A, B Unit: mm                | A, B Dimension Tolerance |
| ~99                          | ±0.5                     |
| 100~250                      | ±0.75                    |
| 251~                         | ±1.0                     |

| T        | T Dimension Tolerance |        |        | Rates of Camber & Torsion per 1,000 mm |
|----------|-----------------------|--------|--------|--|
|          | PKA                   | PKAH   | PKCA   |  |
| 5, 8, 10 | 0~+1.1                | 0~+1.1 | 0~+1.1 | 1.2% or Less                           |
| 16, 20   | —                     | —      | 0~+1.7 | —                                      |
| 25       | 0~+1.7                | —      | —      | 0.8% or Less                           |



| Hole Diameter | b (Min. value) |
|---------------|----------------|
| 3-10          | 2.5            |

| Drilling Details  |                      |  |                   |                                   |
|---|----------------------|--|-------------------|-----------------------------------|
| N (Through hole)  | Z (Counterbore Hole) | N (Through Hole) Z (Counterbored Hole) Details | M (Thread Insert) | Table 1 M (Thread Insert) Details |
|   |                      |  |                   |                                   |
| Bolt Nominal Dia. 3 4 5 6 8 10<br>d 3.5 4.5 5.5 6.5 9 11<br>d <sub>1</sub> 6.5 8 9.5 11 14<br>h 4 5 6 7 9<br>Ordering Code: (Ex.) M4-L6<br>L≤T-1<br>When L+5<T, drilled holes will be blind ones. |                      |  |                   |                                   |

### Pre-Drilled Type

| Type  | Part Number                         |                                  | A              | B             | T Dimension Range by Material | T                | F                     | G                     |
|---|-------------------------------------|----------------------------------|----------------|---------------|-------------------------------|------------------|-----------------------|-----------------------|
|   | T Dimension Tolerance               | No. of Holes                     |                |               |                               |                  |                       |                       |
| PKA Standard<br>PKAH Sliding<br>PKCA Conductive | Not Available                       | Circular Sawing                  | 1 mm Increment |               | Selection                     | 0.5 mm Increment |                       |                       |
|   |                                     |                                  | PKA            | 20-300 20-200 |                               | 5 8 10           | 6-291.5 (2H, 4H)      | 4.5-195.5 (2H)        |
|   |                                     |                                  | PKAH           | 20-250 20-150 |                               | 10               | 6-145.5 (2HL, 4H, 6H) | 6-191.5 (2HL, 4H, 6H) |
|   |                                     |                                  | PKCA           | 20-250 20-150 |                               | 10               | 6-145.5 (6H)          | 6-145.5 (2H)          |
|   |                                     |                                  | PKA            | 20-250 20-150 |                               | 16 20 25         | 6-241.5 (2H, 4H)      | 4.5-145.5 (2H)        |
|   |                                     |                                  | PKCA           | 20-250 20-150 |                               | 16 20            | 4.5-245.5 (2HL)       | 6-141.5 (2HL, 4H, 6H) |
|   | 2FQ 0+0.2<br>2FN ±0.1<br>2FM -0.2-0 | Upper-lower Surface Milling etc. | 1 mm Increment |               | 0.1 mm Increment              | 0.5 mm Increment |                       |                       |
|   |                                     |                                  | PKA            | 20-250 20-150 |                               | 5-24             | 6-241.5 (2H, 4H)      | 4.5-145.5 (2H)        |
|   |                                     |                                  | PKAH           | 20-250 20-150 |                               | 5-9              | 4.5-245.5 (2HL)       | 6-141.5 (2HL, 4H, 6H) |
|   |                                     |                                  | PKCA           | 20-250 20-150 |                               | 9.1-19           | 6-120.5 (6H)          | 6-120.5 (6H)          |
|   |                                     |                                  | PKA            | 20-250 20-150 |                               | 5-24             | 6-241.5 (2H, 4H)      | 4.5-145.5 (2H)        |
|   |                                     |                                  | PKAH           | 20-250 20-150 |                               | 5-9              | 4.5-245.5 (2HL)       | 6-141.5 (2HL, 4H, 6H) |

Dimension F Specification Range: For 2H and 4H, d(d<sub>1</sub>)+2.5≤F≤A-d(d<sub>1</sub>)-5; for 2HL, d(d<sub>1</sub>)/2+2.5≤F≤A-d(d<sub>1</sub>)/2-2.5; for 6H, d(d<sub>1</sub>)+2.5≤F≤(A-d(d<sub>1</sub>)-5)/2.  
 Dimension G Specification Range: For 2H, d(d<sub>1</sub>)/2+2.5≤G≤B-d(d<sub>1</sub>)/2-2.5. For 2HL, 4H and 6H, (d<sub>1</sub>)+2.5≤G≤B-d(d<sub>1</sub>)-5. (d for through hole, thread insert, d<sub>1</sub> for counterbore)  
 For Pre-drilled Type, select N (through hole) or Z (counterbore hole); for Threaded Insert Type, select M (threaded insert) or L (insertion length).

| T     | Pre-drilled Hole Nominal Diameter |                    |                   |  |
|-------|-----------------------------------|--------------------|-------------------|--|
|       | Through Hole N                    | Counterbore Hole Z | Thread Insert M L |  |
| 5-7   | 3                                 | —                  | 3 4               | —  |
| 8-9   | 4                                 | 3 4 5              | 3 4 5 6 8         | (Thread Insert Length) Select from Table 1 |
| 10-15 | 6                                 | 4 5 6              | 3 4 5 6 8 10      | —  |
| 16-25 | 8                                 | 4 5 6 8            | 3 4 5 6 8 10      | —  |

| Part Number Example | Part Number | A     | B     | T    | F     | G     | Bolt Nominal Diameter | L    |
|---------------------|-------------|-------|-------|------|-------|-------|-----------------------|------|
| Pre-Drilled Type    | PKA2H       | - 50  | - 25  | - 8  | - F34 | - G10 | - N4                  | -    |
|                     | PKCA2H      | - 150 | - 120 | - 10 | - F80 | - G60 | - M8                  | - L8 |

| Alterations | Hole Position from Left  |    | Hole Position from Bottom   |    |
|-------------|--|----|---|----|
|             | XC   | YC | XC  | YC |
| Code        | XC   |    | YC  |    |
| Spec.       | XC = 0.5 mm Increment<br>(2H, 4H Type)<br>d(d <sub>1</sub> )/2+2.5≤XC≤A-F-d(d <sub>1</sub> )/2-2.5<br>(6H Type)<br>d(d <sub>1</sub> )/2+2.5≤XC≤A-2F-d(d <sub>1</sub> )/2-2.5 |    | YC = 0.5 mm Increment<br>d(d <sub>1</sub> )/2+2.5≤YC≤B-G-d(d <sub>1</sub> )/2-2.5<br>Not available for 2H |    |