

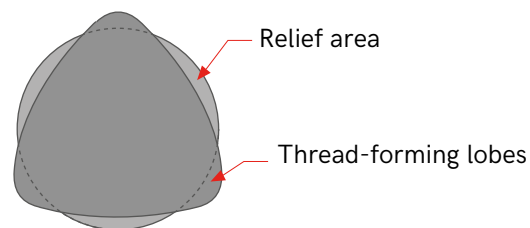
# PLASTITE® 45

Screw for plastic

The Plastite® 45 fastener is designed to facilitate thread-forming in less-compressible plastics while providing high resistance to thread stripping and pull-out.

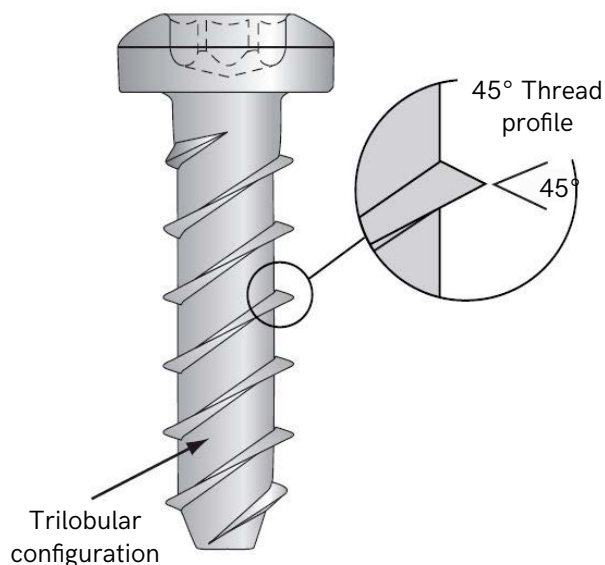
## Main Properties

- Can be used in small bosses
- Increases product reliability
- Lowers screwing torques in stiffer plastics



## Features

- Trilobular configuration allows displaced material to flow back into relief areas
- Minimizes radial stresses
- Reduces risk of boss failure
- Allows design of thinner bosses
- 45° thread profile allows threads to penetrate deeply into plastic material
- Suits a wide range of applications
- Generates strong mating threads
- Resists vibrational loosening
- Increases resistance to thread stripping
- Achieves wide differentials between drive and failure torque
- Single lead design and narrow helix angle lowers drive and failure torque in thermoplastics with a flexural modulus over 5800 N/mm<sup>2</sup>



## Specifications

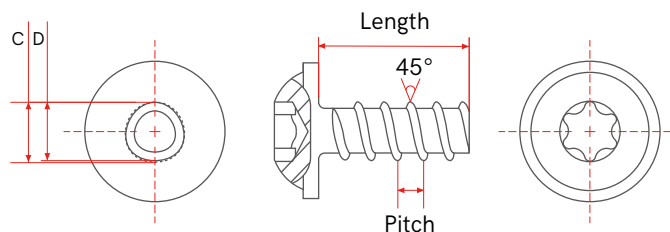
- Sizes:  $\varnothing$  2.5 to 6 mm; other sizes may be available upon request.
- Head Styles: Can be used with any external or internal designs (Pan, hexagonal, round, flanged, etc.).
- Drive System: Can use any system.
- Finish: As required.
- Applications: Engineering-grade thermoplastics (with a flexural modulus over 5800 N/mm<sup>2</sup>)

# PLASTITE®45

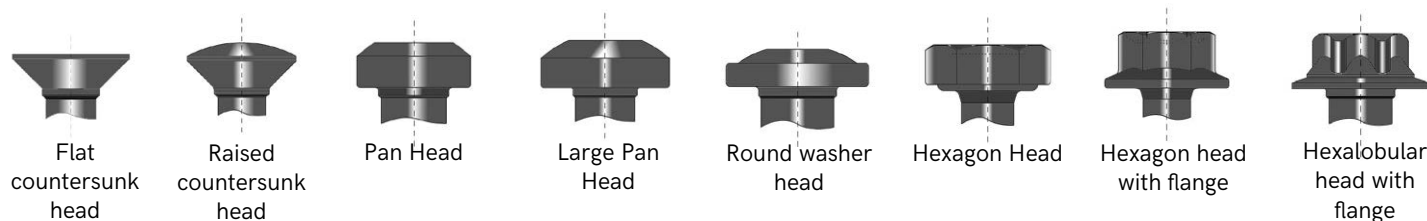
## Screw for plastic

### Technical data sheet

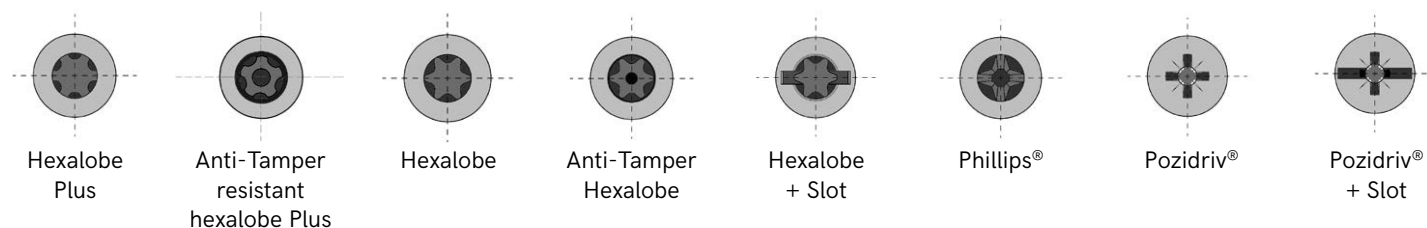
Material: Case-hardened steel  
Surface hardness: 500 to 650 HV0.3  
Core hardness: 270 to 390 HV10



### Head shapes



### Socket type



| Dia nom.    | 2.5         | 3.0         | 3.5         | 4.0         | 5.0         | 6.0         |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| C           | 2.41 - 2.53 | 2.92 - 3.04 | 3.42 - 3.54 | 3.89 - 4.04 | 4.89 - 5.04 | 5.89 - 6.04 |
| D           | 2.37 - 2.49 | 2.87 - 2.99 | 3.34 - 3.48 | 3.79 - 3.94 | 4.79 - 4.94 | 5.78 - 5.93 |
| Pitch       | 1.40        | 1.50        | 1.65        | 1.75        | 2.20        | 2.50        |
| Length      |             |             |             |             |             |             |
| 4 +/- 0.45  |             |             |             |             |             |             |
| 6 +/- 0.45  |             |             |             |             |             |             |
| 8 +/- 0.45  |             |             |             |             |             |             |
| 10 +/- 0.45 |             |             |             |             |             |             |
| 12 +/- 0.55 |             |             |             |             |             |             |
| 16 +/- 0.55 |             |             |             |             |             |             |
| 18 +/- 0.55 |             |             |             |             |             |             |
| 20 +/- 0.65 |             |             |             |             |             |             |
| 25 +/- 0.65 |             |             |             |             |             |             |
| 30 +/- 0.65 |             |             |             |             |             |             |
| 35 +/- 0.80 |             |             |             |             |             |             |
| 40 +/- 0.80 |             |             |             |             |             |             |
| 45 +/- 0.80 |             |             |             |             |             |             |
| 50 +/- 0.80 |             |             |             |             |             |             |
| 60 +/- 0.95 |             |             |             |             |             |             |
| 70 +/- 0.95 |             |             |             |             |             |             |

Values in mm