

All PMI products with aluminum alloy type EN AW 6060 are compliance with the spec in below table, which is referred to EN755-2:2016 standard for mechanical properties and EN573-3:2013 for chemical composition. We commit to customer that all products supplied to customer by us have passed our quality assurance inspection and met the standard and customer's requirement.

Physical characteristics

| | | | | | | |
|------------------------------------|-------|-------------------|---------------------------------------|--------------|-----------------------|---------|
| Density: | 2.71 | g/cm ³ | Thermal conductivity at 20 °C: | in state O: | 2.09 | W/cm° K |
| Lower melting point: | 600 | °C | | in state T6: | 1.72 | W/cm° K |
| Specific heat between 0 and 100°C: | 897 | J/Kg° K | Linear thermal expansion coefficient: | -20~100°C | 23.2*10 ⁻⁶ | 1/° K |
| | | | | -20~200°C | 24.1*10 ⁻⁶ | 1/° K |
| | | | | -20~300°C | 25*10 ⁻⁶ | 1/° K |
| Linear modulus of elasticity E: | 69000 | N/mm ² | Electrical resistivity at 20°C: | in state O: | 3.14 | uΩ • cm |
| | | | | in state T6: | 3.85 | uΩ • cm |

Chemical composition according to European Standard EN 573.3

| Alloy | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Others | | Al |
|------------|---------------|---------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|------|
| | | | | | | | | | Each | Total | |
| EN AW-6060 | 0.30 -0.60 | 0.10 -0.30 | 0.10 max | 0.10 max | 0.35 -0.60 | 0.05 max | 0.15 max | 0.10 max | 0.05 max | 0.15 max | rest |

Minimum mechanical properties, according to European Standard EN 755.2

| Types of profile | Temper state | D / S / t(wall thickness) | | Tensile strength Rm(MPa) | | Limit elasticity load Rp0.2(MPa) | | Elongation | |
|-------------------|-------------------|---------------------------|---------|--------------------------|-----|----------------------------------|-----|------------|------------------------|
| | | | | min | max | min | max | A %min | A _{50mm} %min |
| Full bars | T4 ^c | D ≤ 150 | S ≤ 150 | 120 | - | 60 | - | 16 | 14 |
| | T5 | D ≤ 150 | S ≤ 150 | 160 | - | 120 | - | 8 | 6 |
| | T6 ^c | D ≤ 150 | S ≤ 150 | 190 | - | 150 | - | 8 | 6 |
| | T64 ^{cd} | D ≤ 50 | S ≤ 50 | 180 | - | 120 | - | 12 | 10 |
| | T66 ^c | D ≤ 150 | S ≤ 150 | 215 | - | 160 | - | 8 | 6 |
| Extruded pipe | T4 ^c | t ≤ 15 | | 120 | - | 60 | - | 16 | 14 |
| | T5 | t ≤ 15 | | 160 | - | 120 | - | 8 | 6 |
| | T6 ^c | t ≤ 15 | | 190 | - | 150 | - | 8 | 6 |
| | T64 ^{cd} | t ≤ 15 | | 180 | - | 120 | - | 12 | 10 |
| | T66 ^c | t ≤ 15 | | 215 | - | 160 | - | 8 | 6 |
| Sections | T4 ^c | t ≤ 25 | | 120 | - | 60 | - | 16 | 14 |
| | T5 | t ≤ 5 | | 160 140 | -- | 120 | -- | 8 | 6 |
| | | 5 < t ≤ 25 | | | | | | 8 | 6 |
| | T6 ^c | t ≤ 3 | | 190 170 | -- | 150 | -- | 8 | 6 |
| | | 3 < t ≤ 25 | | | | | | 8 | 6 |
| T64 ^{cd} | t ≤ 15 | | 180 | - | 120 | - | 12 | 10 | |
| T66 ^c | t ≤ 3 | | 215 195 | -- | 160 | -- | 8 | 6 | |
| | 3 < t ≤ 25 | | | | | | 8 | 6 | |

a D = Diameter for round bar.

b S = Width across flats for square and hexagonal bar, thickness for rectangular bar.

c Properties may be obtained by press quenching.

d Bending quality.

e If a profile cross section is comprised of different thickness which fall in more than one set of specified mechanical property values, the lowest specified value shall be considered as valid for the whole profile cross section.