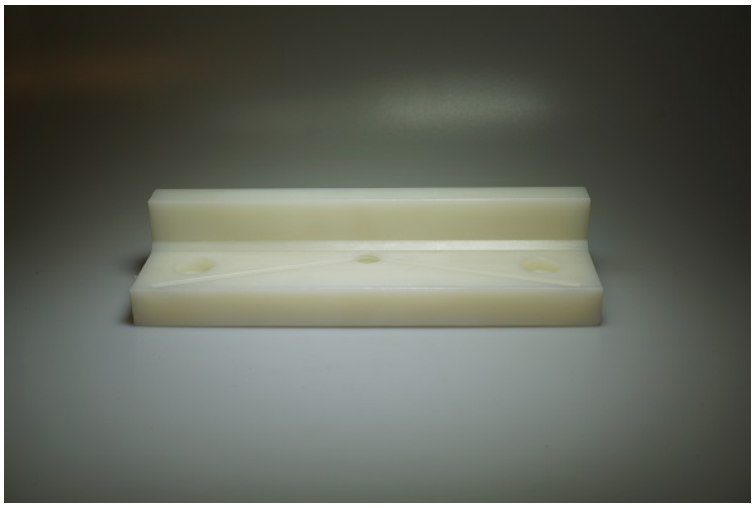
# ASEC



## ENGINEERING PLASTICS PA AE-ZL250PE

**SKU:** AEZL250PE

**ASEC Kunststoffen BV**

Marketing 17, 6921 RE Duiven, The Netherlands

T: +31 316 84 44 01 | info@asec.nl

---

**Categories:** PA with additives, PA6.6 with additives

**Features**

- Developed for high demanding slip applications.
- Suitable for structural parts which must be resistant to the highest loading.
- First class tribological properties for lower friction contributions.
- Lower slip-stick effect.
- Needs less energy to put components in motion.
- Good slide properties even with high loading.

**Application**
Gripper rods in weaving machines, bushes for brake linkages of bogies for freight wagons, gliding and wear pads in the crane industry.

**Material**
Polyamide 6.6 with Polyethylene

AEZL250PE is developed for high demanding slip applications. AEZL250PE has lower friction contribution and is resistant to wear and tear due its first class tribological properties. It's having a clearly lower slip-stick effect coMParing to oil-filled cast Nylon. This is a requirement for jerk-free slip which is particularly important in the case of cranes under load. Also, its needs less energy to put components in motion such as telescopic extensions of cranes.

The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.
ASEC Products 2022 ©.

# ASEC

| Availablity | | Value | Unit |
|---|---|---|---|
| Rod diameters | | 6-150 | mm |
| Length standard | | 3000 | mm |
| Sheet size | | 1000x2000 | mm |
| Sheet thickness | | 8-60 | mm |
| **Physical properties** | **Test standard** | **Value** | **Unit** |
| Density | | 1.12 | g/cm³ |
| Food contact allowed | | High | |
| Wear Resistance | | High | |
| Dimensional stability | | Medium | |
| **Mechanical properties** | **Test standard** | **Value** | **Unit** |
| Hardness | ISO 868 | 80 | SHORE-D |
| Yield stress | ISO 527 | 64 | MPa |
| Elongation at break | ISO 527 | 12 | % |
| Modulus of elasticity in tension | ISO 527 | 2700 | MPa |
| Bending modulus | Flexural test | 2600 | MPa |
| Flexural strength | ISO 178 | 100 | MPa |
| Charpy impact strength +23°C | ISO 179/1eU | 35 | kJ/m² |
| Charpy notched impact strength +23°C | ISO/1eA | 3 | kJ/m² |
| Compressive modulus | ISO 604 | 2200 | MPa |
| **Thermal properties** | **Test standard** | **Value** | **Unit** |
| Min. working temperature | | -30 | °C |
| Max. working temperature | | 85 | °C |
| Inter. working temperature | | 120 | °C |
| Heat distortion temperature | Method A ISO 75 | 80 | °C |
| Thermal coefficient of linear expansion | DIN 53752 | 9 | 1/K.10-5 |
| Specific heat capacity | IEC 1006 | 1.7 | J/g.K |
| Moisture absorption at 23°C, 50% RH | ISO 62 | 2.2 | % |
| Water absorption at 23 °C | ISO 62 | 8.5 | % |
| Flammability | UL 94 | HB | [-] |
| **Electrical properties** | **Test standard** | **Value** | **Unit** |
| Dielectric strength | IEC 243 | 25 | KV/mm |
| Dielectric constant at 1MHZ | IEC 250 | 3,3 | [-] |
| Volume resistivity | IEC 93 | 10 15 | Ω.cm |
| Surface resistivity | IEC 93 | 10 13 | Ω |
| Resistance to tracking (CTI) | DIN EN 60112 | 600 | [-] |
| **Friction properties** | **Test standard** | **Value** | **Unit** |
| Coefficient of friction | | High | |

The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.
ASEC Products 2022 ©.