# *TECHNICAL – INFORMATION*

## Exakt Polyamide 162-UO

**Product Description:** Exakt Polyamide 162-UO provides the following characteristics:

**Technology:** Polyamide

**Product Type:** Hotmelt

**Cure:** Physical setting

**Condition:** Thermoplastic

**Components:** One component

**Application:** General assembly

**Color:** Amber

**Application Areas:** Exakt Polyamide 162-UO is used for general assembly applications.

**Technical data:**

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|---|---|
| Density, g/cm³ | 0.98 |
| ISO | 1183 – 1, 20 °C |
| Softening point, °C | 135 - 145 |
| ATSM E | 28 (in glycerine) |
| Melting Viscosity at 160 °C, mPas | 27000 |
| Melting Viscosity at 180 °C, mPas | 13000 |
| Melting Viscosity at 200 °C, mPas | 7000 |
| Melting Viscosity at 210 °C, mPas | 4000 – 6000 |
| Melting Viscosity at 220 °C, mPas | 3500 |
| ATSM D | 3236 (RVT, spindle 27) |
| Temperature creep resistance, °C mPas: | 110 |
| Bickers method MH: | 11 |
| Yield strength, N/mm²: | 4 |
| ISO: | 527 |
| Specimen: | no.5 |
| cross-head-speed: | 50mm/min |
| Break strength, N/mm²: | 4.5 |
| SO: | 527 |
| Specimen: | no.5 |
| cross-head-speed: | 50mm/min |
| Elegation,%: | 500 |
| SO: | 527 |
| Specimen: | no.5 |
| cross-head-speed: | 50mm/min |
| Low temperature flexibility, °C: | - 10 |
| ASTM D: | 3111 |

**Direction for use:**

**Preliminary Statement:** Prior to application it is necessary to read the Material Safety Data Sheet for information about precautionary measures and safety recommendations.
Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed.

**Preparation:** The surfaces of the substrate must be dry and free from oil, grease and dust.

**Application:**

Application Temperature: 180 – 220 °C
Application System: Hotmelt application system

When bonding to a substrate with high thermal conductivity the use of a specific application temperature is required for good wetting.
Do not heat the product above the specified application temperature range. When the product is not use do not apply heat, this will degrade the quality of the product and in extreme cases cause carbonisation. The standby temperature for the product is 90 °C but not for longer than 72h.
Exakt Polyamid 162-UO may absorb moisture from the air. This bubbles on heating and could affect the bond quality. It is important, therefore that containers are kept closed and sealed when not in use.
Immediately after joining, keep the parts pressed together until the bonded join is held by the adhesive itself. The time which this requires is lagerly dependent on the recovery of the material to be bonded. If the join is parted even by some tenths of millimeters during the binding stage, a ridge is formed which leads to reduced load capacity of the join.

**Cleaning:**

Carbonised and set (non thermoplastic) material must be removed mechanically. Removal of the thermoplastic material from the hot apparatus can be achieved with the solvent free cleaning system, such as (see seperate technical information)

**Classification:**

Please refer to the corresponding safety data sheets for details on:
**Hazardous Information**
**Transport Regulations**
**Safety Regulations**

**Storage:**

When properly stored in a cool, dry location with the container thightly closed when not in use, this product will have a shielf life of at least 24 months.



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