

DAMIDBOND 200

Rectangular enamelled wire of copper, bondable, class 200

Former designation:
Damidbond

Product name:

Damidbond 200

Specifications:

IEC 60317-29 + Internal LWW standard

UL approval:

Approved: Damidbond
UL-file no: E101843

Class: 200

Temperature index $\geq 200^{\circ}\text{C}$
Heat shock: $\geq 220^{\circ}\text{C}$

Conductor material:

Cu according to EN 1977/ASTM B49

Insulation:

Basecoat: THEIC-modified polyester imide
Overcoat: Polyamide-imide
Bonding coat: Modified aromatic polyamide

Properties:

- Can be bonded with hot air or electric resistance heating at $180^{\circ}\text{C} - 220^{\circ}\text{C}$
- High re-softening temperature

Field of application:

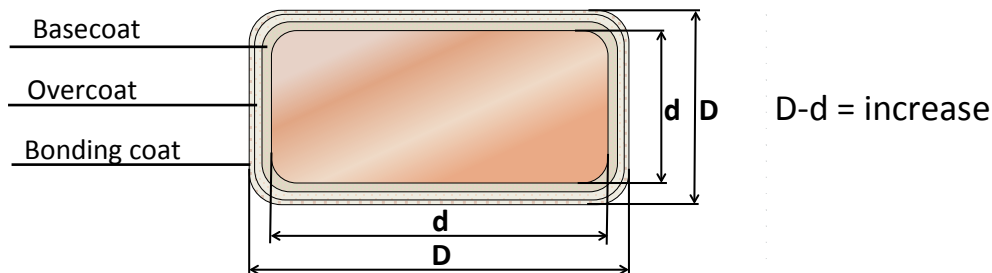
- Electric motors
- Rotor coils

Standard packaging:

Drum 355, 500, 630

Shelf life:

2 years, under normal ambient conditions



Increase in dimension due to insulation = 0,10 - 0,20 mm

Conductor tolerances

| Nominal width or thickness of the conductor (mm) | | Tolerance +/- (mm) |
|--|---------------------|--------------------|
| Over | Up to and including | |
| - | 3,15 | 0,030 |
| 3,15 | 6,30 | 0,050 |
| 6,30 | 12,50 | 0,070 |
| 12,50 | 16,00 | 0,100 |

Conductor corner radius

| Nominal thickness of conductor (mm) | | Corner radius (mm) | Tolerance |
|-------------------------------------|---------------------|-----------------------|-----------|
| Over | Up to and including | | |
| - | 1,00 | 0,5 nominal thickness | +/- 25% |
| 1,00 | 1,60 | 0,50 | +/- 25% |
| 1,60 | 2,24 | 0,65 | +/- 25% |
| 2,24 | 3,55 | 0,80 | +/- 25% |
| 3,55 | 5,60 | 1,00 | +/- 25% |

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Properties for DAMIDBOND 200

| Main characteristics | Test method | Interval | Acceptance criteria | Test values for a Damidbond 200 sample (5,60 x 3,55) |
|---|-----------------|---|---|--|
| Thermal properties | | | | |
| Heat shock | IEC 60851 - 6.3 | $1,00 \leq T \leq 5,60$ | $\geq 220^{\circ}\text{C}$, 6 x T | $\geq 220^{\circ}\text{C}$, 6 x T |
| Temperature index | IEC 60172 | 1) | $\geq 200^{\circ}\text{C}^{2)}$ | $\geq 200^{\circ}\text{C}^{2)}$ |
| Electrical properties | | | | |
| Conductor resistance | IEC 60851 - 5.3 | 3) | 0,01709 $\Omega\text{mm}^2/\text{m}$ | 0,01709 $\Omega\text{mm}^2/\text{m}$ |
| Conductivity | 1/R | 3) | $> 58 \text{ m}/(\Omega\text{mm}^2)$ | $> 58 \text{ m}/(\Omega\text{mm}^2)$ |
| Breakdown voltage | IEC 60851 - 5.4 | All sizes | 2,0 kV | 5,0 kV |
| Mechanical properties | | | | |
| Elongation | IEC 60851-3.3 | $1,00 \leq T \leq 2,50$ | $\geq 30\%$ | - |
| | | $2,50 < T \leq 5,60$ | $\geq 32\%$ | 40% |
| Springback angle | IEC 60851-3.4 | All sizes | $\leq 5^{\circ}$ | 4,1° |
| Flexibility - Bending edgewise - Bending flatwise | IEC 60851-3.5 | width $\leq 10 \text{ mm}$ width $> 10 \text{ mm}$ | 4 x width 5 x width | 3 x width 4 x width |
| | | All sizes | 4 x thickness | 3 x thickness |
| Adherence -Cut and stretch | IEC 60851-3.5 | All sizes | 15% stretch, Loss of adhesion $< 1 \text{ x width}$ | 30% stretch |
| Bonding strenght | Internal LWW | All sizes | Strong enough to bend the wire when bonding is broken apart, but not strong enough to get the enamel to release from copper conductor | |

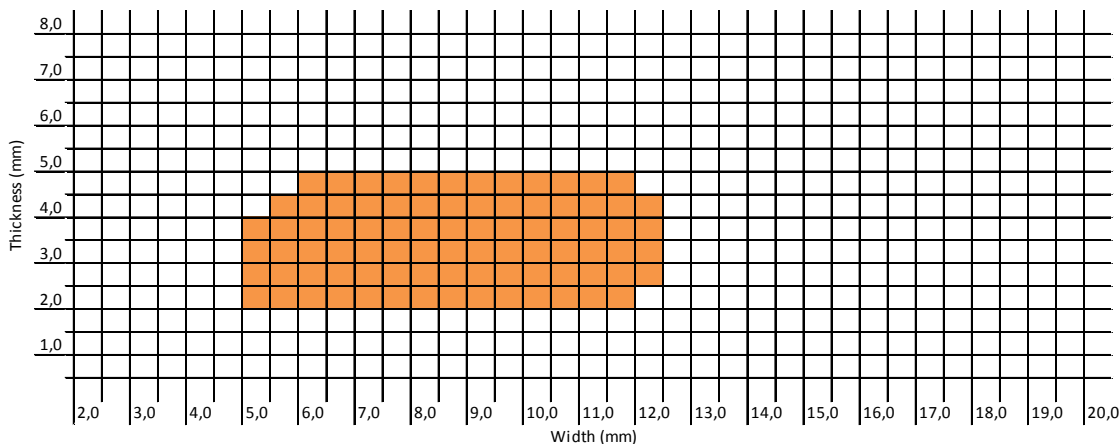
1. Test conducted on round wire, 1,00 mm grade 2, according to IEC 60172

2. According to supplier certificate

3. Dependence of dimension is expressed by the unit

Values above are for information only. All values noted are typical and can vary between lots and dimensions.

Dimension range



The technical data included is up to date at the time of printing.

LWW reserve the right to make any amendments deemed necessary

Liljedahl Winding Wire

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liljedahl winding wire