DAMIDBOND 200

Rectangular enamelled wire of copper, bondable, class 200

Product name:
Damidbond 200

Specifications:
IEC 60317-29 + Internal Dahren standard

UL approval:
Approved: Damidbond 200
UL-file no: E101843

Class: 200
Temperature index ≥ 200°C
Heat shock: ≥ 220°C

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

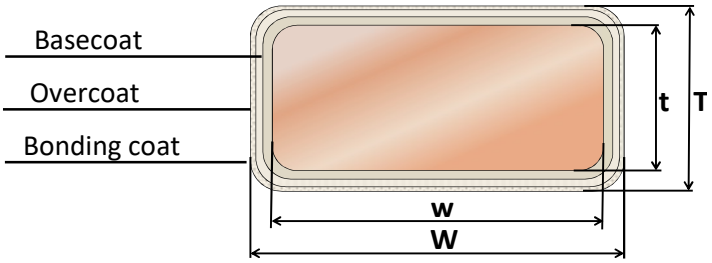
Properties:
- High heat resistance
- Very good resistance to transformer oils
- Very good resistance to typical solvent
- Bondable at 180°C-220°C
- High re-softening temperature

Field of application:
- Electric motors
- Rotor coils

Standard
K355, K500, VM630

Shelf life:
2 years, under normal ambient conditions

Conductor material:
EN 1977 - ETP1 CW003 A
EN 1977 - ETP CW004A
ASTM B49 - ETP C11000/C11040



T - t = Increase in thickness

W - w = Increase in width

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

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%

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

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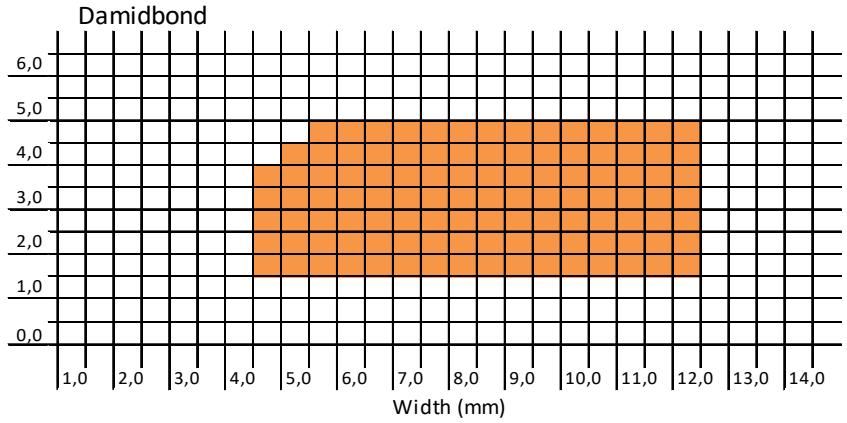
Properties for DAMIDBOND 200

Main characteristics	Test method	Interval	Acceptance criteria	Typical values
Thermal properties				
Heat shock	IEC 60851 - 6.3	1,00 ≤ t ≤ 6,00	≥ 220°C, 6 x t	≥ 220°C, 6 x t
Temperature index	IEC 60172	1)	≥ 200°C 2)	≥ 200°C 2)
Electrical properties				
Conductor resistance	IEC 60851 - 5.3	3)	0,01724 Ωmm²/m	0,01724 Ωmm²/m
Conductivity	1/R	3)	> 58,5 m/(Ωmm²)	> 58,5 m/(Ωmm²)
Breakdown voltage	IEC 60851 - 5.4	All sizes	2,0 kV	5,0 kV
Mechanical properties				
Elongation	IEC 60851-3.3	1,00 ≤ t ≤ 2,50	≥ 30%	-
		2,50 < t ≤ 5,60	≥ 32%	40%
Springback angle	IEC 60851-3.4	All sizes	≤ 5°	4,1°
Flexibility	IEC 60851-3.5			
- Bending edgewise		width ≤ 10 mm	4 x width	3 x width
		width > 10 mm	5 x width	4 x width
- Bending flatwise		All sizes	4 x thickness	3 x thickness
Adherence -Cut and stretch	IEC 60851-3.5	All sizes	15% stretch, Loss of adhesion < 1 x width	30% stretch
Bonding strenght	Internal Dahren	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.
We reserves the right to make any amendments deemed necessary

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Certified according to ISO 9001, IATF 16949, ISO 14001

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