



DAROGLAS 155

Rectangular conductor of copper, covered with polyester-glassfibre yarn, class 155

Product name:

Daroglas 155 1
Daroglas 155 2

Properties:

- Excellent resistance to mechanical stress
- Very good adhesion to conductor

Specifications:

IEC 60317-60 or customer specification

Field of application:

- Dry-type transformers
- Electric motors

UL approval:

Not approved

Standard packaging:

K500, VM630

Class: 155

Temperature index $\geq 155^{\circ}\text{C}$ acc. to experience
Heat shock: $\geq 175^{\circ}\text{C}$

Shelf life:

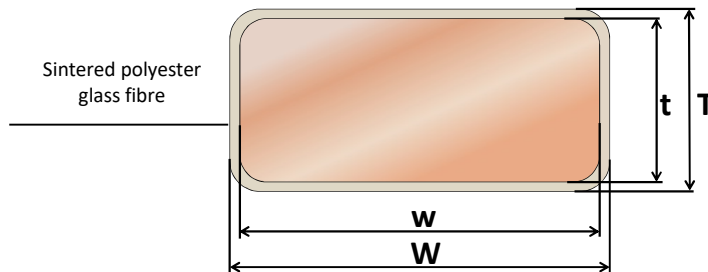
5 years, under normal ambient conditions

Insulation:

1-2 layers of polyester glass fibre yarn

Conductor material:

- EN 1977 - ETP1 CW003A
- EN 1977 - ETP CW004A
- ASTM B49 - ETP C11000/C11040



$T - t =$ Increase in thickness

$W - w =$ Increase in width

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	-	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	-	0,100

Certified according to ISO 9001, IATF 16949, ISO 14001

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Insulation increase

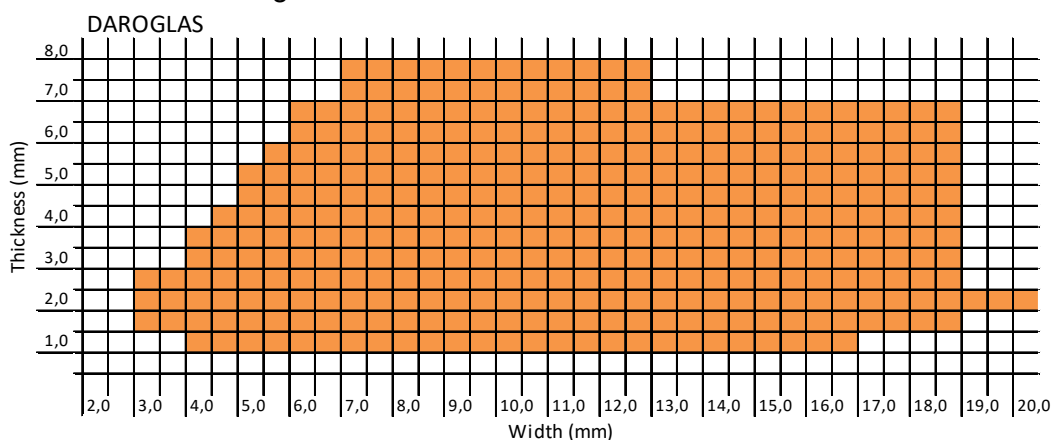
Designation	Nominal width of conductor	Increase in thickness	Increase in width
Daroglas 155 1	$2,00 \leq w \leq 3,15$	$0,12 \pm 0,04$	max. 0,16
	$3,15 < w \leq 6,30$	$0,14 \pm 0,04$	max. 0,18
	$6,30 < w \leq 12,50$	$0,16 \pm 0,05$	max. 0,21
	$12,50 < w \leq 20,50$	$0,18 \pm 0,06$	max. 0,24
Daroglas 155 2	$2,00 \leq w \leq 3,15$	$0,25 \pm 0,06$	max. 0,31
	$3,15 < w \leq 6,30$	$0,28 \pm 0,07$	max. 0,35
	$6,30 < w \leq 12,50$	$0,30 \pm 0,08$	max. 0,38
	$12,50 < w \leq 20,50$	$0,32 \pm 0,08$	max. 0,40

Properties for DAROGLAS 155

Main characteristics	Test method	Interval	Acceptance criteria
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	1)	$0,01724 \Omega \text{mm}^2/\text{m}$
Conductivity	1/R	1)	$> 58 \text{ m}/(\Omega \text{mm}^2)$
Breakdown voltage			
- Daroglas 155 1	IEC 60851 - 5.4	All sizes	350 V
- Daroglas 155 2			560 V
Mechanical properties			
Elongation	IEC 60851-3.3	$1,00 \leq t \leq 2,50$	$\geq 30\%$
		$t > 2,50$	$\geq 32\%$
Springback angle	IEC 60851-3.4	All sizes	$\leq 5,0^\circ$
Flexibility	IEC 60851-3.5	$w \leq 8 \text{ mm}$	10 x width
- Bending edgewise		$w > 8 \text{ mm}$	15 x width
- Bending flatwise		All sizes	10 x thickness
Adherence	IEC 60851-3.5	All sizes	20 % stretch, no loss of adhesion
-Stretch			

1. Dependence of dimension is expressed by the unit

Dimension range



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

LWW reserves the right to make any amendments deemed necessary. Ed.A(2)