



DAROGLAS 155

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

Product name:

Daroglas 155 1

Daroglas 155 2

Specifications:

IEC 60317-60 or customer specification

UL approval:

Not approved

Class: 155

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

Heat shock: $\geq 175^{\circ}\text{C}$

Insulation:

1-2 layers of polyester glass fibre yarn

Properties:

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

Field of application:

- Dry-type transformers
- Electric motors

Standard packaging:

K500, VM630

Shelf life:

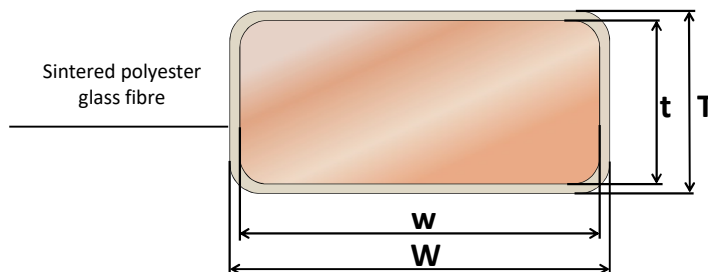
5 years, under normal ambient conditions

Conductor material:

EN 1977 - ETP1 CW003A

EN 1977 - ETP CW004A

ASTM B49 - ETP C11000/C11040



$T - t = \text{Increase in thickness}$

$W - w = \text{Increase in width}$

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

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Insulation increase

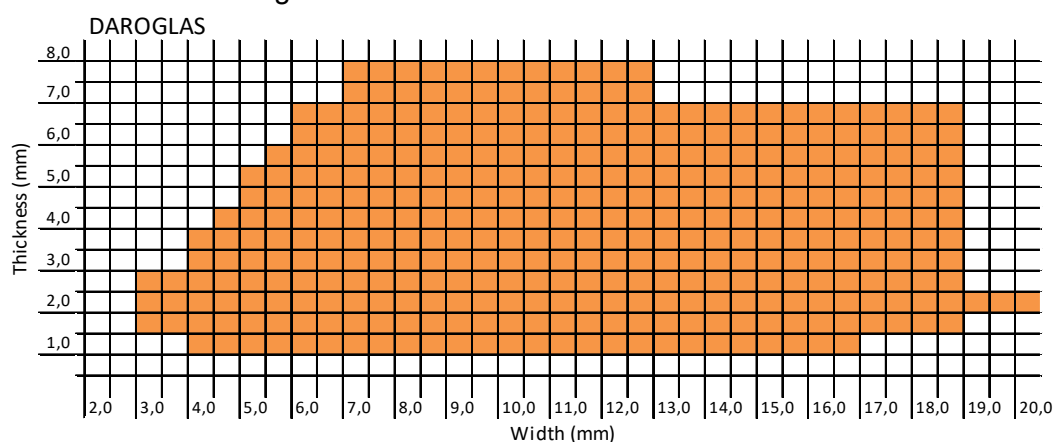
Designation	Nominal width of conductor	Increase in thickness	Increase in width
Daroglas 155 1	$2,00 \leq w \leq 3,15$	$0,12 \pm 0,04$	max. 0,16
	$3,15 < w \leq 6,30$	$0,14 \pm 0,04$	max. 0,18
	$6,30 < w \leq 12,50$	$0,16 \pm 0,05$	max. 0,21
	$12,50 < w \leq 20,50$	$0,18 \pm 0,06$	max. 0,24
Daroglas 155 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	IEC 60851 - 5.4	All sizes	350 V
- Daroglas 155 1			560 V
- Daroglas 155 2			
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)