

DAMIDOGLAS 155 AL

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

Product name:

Damidoglas 155 1 AL
 Damidoglas 155 2 AL

Properties:

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

Specifications:

Internal LWW or customer specification

Field of application:

- Generators
- Electric motors

UL approval:

Not approved

Standard packaging:

Drum 500 and 630

Class: 155

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

Shelf life:

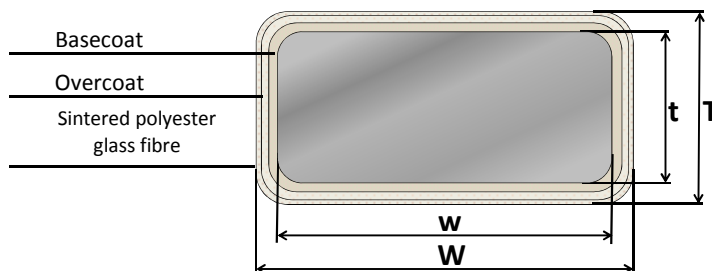
5 years, under normal ambient conditions

Insulation:

Basecoat: THEIC-modified polyester or polyesterimide
 Overcoat: Polyamide-imide
 1-2 layers of polyester glass fibre yarn

Conductor material

EN 1715 - EN AW1370 [Al 99.7]



$T - t =$ 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

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Insulation increase

Designation	Nominal width of conductor	Increase in thickness	Increase in width
Damidoglas 155 1 AL	$2,00 \leq w \leq 3,15$	$0,27 \pm 0,06$	max. 0,33
	$3,15 < w \leq 6,30$	$0,29 \pm 0,06$	max. 0,35
	$6,30 < w \leq 12,50$	$0,31 \pm 0,07$	max. 0,38
	$12,50 < w \leq 20,50$	$0,33 \pm 0,09$	max. 0,41
Damidoglas 155 2 AL	$2,00 \leq w \leq 3,15$	$0,40 \pm 0,08$	max. 0,48
	$3,15 < w \leq 6,30$	$0,43 \pm 0,09$	max. 0,52
	$6,30 < w \leq 12,50$	$0,45 \pm 0,10$	max. 0,55
	$12,50 < w \leq 20,50$	$0,47 \pm 0,10$	max. 0,57

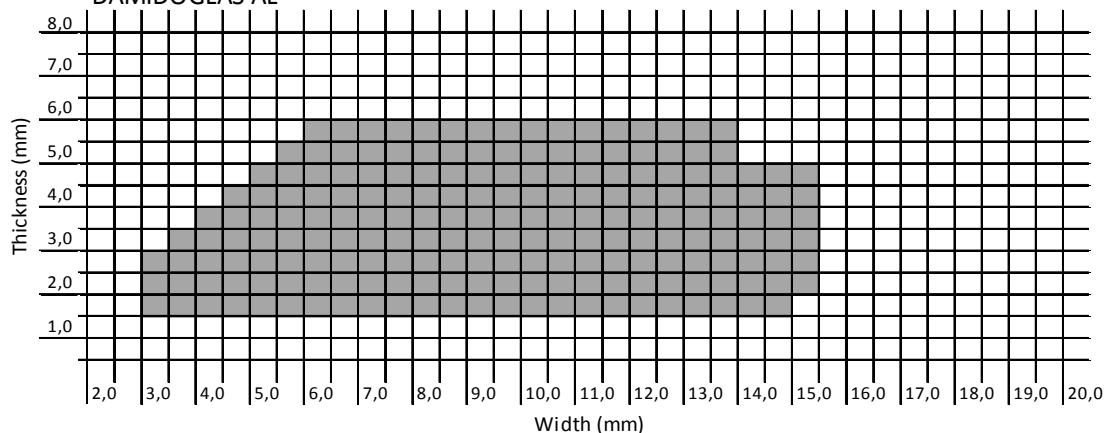
Properties for DAMIDOGLAS 155 AL

Main characteristics	Test method	Interval	Acceptance criteria
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	1)	$0,02817 \Omega\text{mm}^2/\text{m}$
Conductivity	1/R	1)	$> 35,5 \text{ m}/(\Omega\text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4	All sizes	2350 V
- Damidoglas 155 1 AL - Damidoglas 155 2 AL			2560 V
Mechanical properties			
Elongation	IEC 60851-3.3	$t \leq 3,15$	$\geq 15\%$
		$t > 3,15$	$\geq 20\%$
Flexibility	IEC 60851-3.5	All sizes	10 x thickness
- Bending flatwise			
Adherence	IEC 60851-3.5	All sizes	10 % stretch, no loss of adhesion
-Stretch			

1. Dependence of dimension is expressed by the unit

Dimension range

DAMIDOGLAS AL



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(3)