

PUCARO Transformer Presspaper DDP

In accordance with IEC 641 - 1 Type P 4.1 and P 2.1

Features:

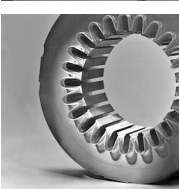
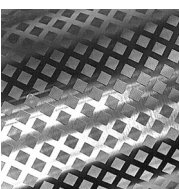
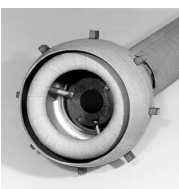
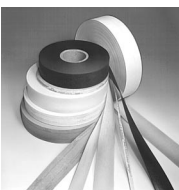
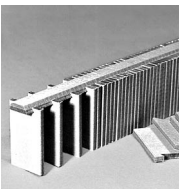
- **Insulation class A** (105 °C) in accordance with VDE 0530 Part 1
- Presspaper (in rolls), 100 % sulphate wood pulp
- **Type P 4.1** in accordance with IEC 641 - 1 (soft calandered)
- Also available: **Type P 2.1** according to IEC 641 - 1 (calandered)
- High purity and mechanical strength
- Thermosetting coating of expoxi-phenolic resin (B-stage), put in rhombic pattern on one or both sides.
- Good compatibility with transformer impregnants after curing of the coating.
Note: The surfaces to be bonded must remain tightly pressed together during curing

Application:

- Layer insulation in liquid-immersed transformers

Available:

- In rolls appr. 640 or 1280 mm width
 In strips minimum width 4 mm
- Available thickness: 0.1 - 1.0 mm (presspaper thickness)



Technical Data

PUCARO Transformer Presspaper DDP

In accordance with IEC 641 - 1 Type P 4.1 and P 2.1

Material Properties:

	Test standard	Conditioning	Unit	Type P 4.1		Type P 2.1	
				Mean value *	Standard value IEC 641-3	Mean value *	Standard value IEC 641-3
Permissible thickness deviation max.	IEC 641-2	Standard atmosph. 23/50	mm	± 10 %	± 10 %	± 10 %	± 10 %
Apparent density	IEC 641-2	Standard atmosph. 23/50	g/cm ³	1.1	1.00 - 1.20	1.25	1.20 - 1.30
Tensile strength unfolded min. M.D. C.M.D.	IEC 641-2	Standard atmosph. 23/50	N/mm ²	90 50	80 40	100 60	90 50
Elongation unfolded min. M.D. C.M.D.	IEC 641-2	Standard atmosph. 23/50	%	6.5 13	6 12	6 13	5.5 12
Electric strength unfolded	IEC 641-2	Standard atmosph. 23/50	kV/mm	11	10	12	11
Coating thickness per side	-	Delivery	µm	≈10	-	≈10	-
Baking time	-	Delivery	min.	20**	-	20**	-
Softening temperature of the coating	-	Delivery	°C	80	-	80	-
Baking temperature min.	-	Delivery	°C	110	-	110	-
Resoftening temperature of the coating	-	Cured	°C	>180	-	>180	-
Shelf-life min.	-	Delivery	Months	6	-	6	-

* Based on the measurements of material of 0.25 mm thickness.

** Large-volume baking systems may require longer baking times due to high thermal capacity or poor thermal conduction.

- Baking method: Radiant heat or oven baking
- Storage: In well-packed condition at normal room temperature

The above values, which have been determined by careful tests, provide only general information. PUCARO has implemented several programs to assure the highest quality and reliability of this product. However, no responsibility is assumed for its use.

Technical Data

PUCARO Transformer Presspaper DDP

In accordance with IEC 641 - 1 Type P 4.1 and P 2.1

Diagram:

