Presspaper PSP 3055

P.2.1B according to IEC 60641-3-2



- **PSP 3055 is a natural-coloured, calendered presspaper made of 100 % unbleached sulphate cellulose that is free of all bonding agents.**
- **PSP 3055 is manufactured in thicknesses from 0.10 to 1.0 mm and is primarily used for core insulation, layer insulation and winding insulation on distribution transformers.**
- **Upon request, the presspaper PSP 3055 can also be provided in a special "Thermally upgraded" version (name: Presspaper PSP 3055 TU). Here the thermal ageing process of the presspaper is delayed by adding a small quantity of a nitrogenous additive.**
- **For formats and tolerances, see Page 1.22**

Technical data for presspaper PSP 3055 / Measured in accordance with IEC 60641-2								
Nominal thickness Tolerance	mm %	0.10 ± 10	0.13 ± 10	0.15 ± 10	0.18 ± 10	0.20 ± 10	0.25 ± 10	0.30 ± 10
Density	g/cm³	1.2 - 1.3	1.2 - 1.3	1.2 - 1.3	1.2 - 1.3	1.2 - 1.3	1.2 - 1.3	1.2 - 1.3
Area weight approx.	g/m²	125	165	185	225	250	315	375
Area yield approx.	m²/kg	8.0	6.1	5.4	4.4	4.0	3.2	2.7
Tensile strength MD	MPa	≥ 80	≥ 80	≥ 80	≥ 80	≥ 80	≥ 85	≥ 85
Tensile strength CMD	MPa	≥ 45	≥ 45	≥ 45	≥ 45	≥ 45	≥ 50	≥ 50
Elongation MD	%	≥ 4	≥ 4	≥ 4	≥ 4	≥ 4	≥ 4.5	≥ 4.5
Elongation CMD	%	≥ 9	≥ 9	≥ 9	≥ 9	≥ 9	≥ 10	≥ 10
Moisture content	%	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
Shrinkage MD	%	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1
Shrinkage CMD	%	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
Conductivity of the aqueous extract	mS/m	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
Dielectric strength in air	kV/mm	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 11	≥ 11
Dielectric strength in oil	kV/mm	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50
Nominal thickness Tolerance	mm %	0.40 ± 10	0.50 ± 10	0.60 ± 10	0.70 ± 10	0.80 ± 10	0.90 ± 10	1.00 ± 10
Density	g/cm³	1.2 - 1.3	1.2 - 1.3	1.2 - 1.3	1.2 - 1.3	1.2 - 1.3	1.2 - 1.3	1.2 - 1.3
Area weight approx.	g/m²	500	630	750	875	1000	1125	1250
Area yield approx.	m²/kg	2.0	1.6	1.3	1.1	1.0	0.9	0.8
Tensile strength MD	MPa	≥ 85	≥ 85	≥ 85	≥ 85	≥ 85	≥ 85	≥ 85
Tensile strength CMD	MPa	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50
Elongation MD	%	≥ 4.5	≥ 4.5	≥ 4.5	≥ 4.5	≥ 4.5	≥ 4.5	≥ 4.5
Elongation CMD	%	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10	≥ 10
Moisture content	%	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
Shrinkage MD	%	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1
Shrinkage CMD	%	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
Conductivity of the aqueous extract	mS/m	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
Dielectric strength in air	kV/mm	≥ 11	≥ 11	≥ 11	≥ 11	≥ 11	≥ 11	≥ 11
Dielectric strength in oil	kV/mm	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50

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All values indicated should be viewed as guideline values. Subject to changes. We do not accept any obligations or liabilities in respect of this information.
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