Presspaper PSP 3055 SL

P.4.1A or P.4.1B* according to IEC 60641-3-2



- **PSP 3055 SL is a natural-coloured, calendered presspaper made of 100 % unbleached sulphate cellulose that is free of all bonding agents, similar to the presspaper PSP 3055. In contrast to the presspaper PSP 3055, however, it has a lower density. For this reason, the capacity for impregnation with fluid dielectrics is improved, which results in shorter impregnation times, greater absorption capacity and greater electric stability after impregnation. But a certain reduction in tensile strengths should be expected.**
- **Upon request, the presspaper PSP 3055 SL can also be provided in a special "Thermally upgraded" version (name: Presspaper PSP 3055 SL TU). Here the thermal ageing process of the presspaper is delayed by adding a small quantity of a nitrogenous additive.**
- **PSP 3055 SL is manufactured in thicknesses from 0.05 to 0.50 mm and is primarily used for core insulation, layer insulation and winding insulation on distribution transformers, as well as in capacitors.**
- **For formats and tolerances, see Page 1.22**

Technical data for presspaper PSP 3055 SL / Measured in accordance with IEC 60641-2													
Nominal thickness **Tolerance**	mm %	0.05 ± 10	0.06 ± 10	0.075 ± 10	0.10 ± 10	0.125 ± 10	0.15 ± 10	0.175 ± 10	0.20 ± 10	0.25 ± 10	0.30 ± 10	0.40 ± 10	0.50 ± 10
Density	g/cm³	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2
Area weight approx.	g/m²	55	66	83	110	135	165	190	220	275	330	440	550
Area yield approx.	m²/kg	18.2	15.2	12.0	9.1	7.4	6.1	5.3	4.5	3.6	3.0	2.3	1.8
Tensile strength MD	MPa	≥ 70	≥ 70	≥ 75	≥ 75	≥ 75	≥ 75	≥ 75	≥ 75	≥ 80	≥ 80	≥ 80	≥ 80
Tensile strength CMD	MPa	≥ 35	≥ 35	≥ 35	≥ 35	≥ 35	≥ 35	≥ 35	≥ 35	≥ 40	≥ 40	≥ 40	≥ 40
Elongation MD	%	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3.5	≥ 3.5	≥ 3.5	≥ 3
Elongation CMD	%	≥ 9	≥ 9	≥ 9	≥ 9	≥ 9	≥ 9	≥ 9	≥ 9	≥ 10	≥ 10	≥ 10	≥ 10
Moisture content	%	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
Shrinkage MD	%	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1
Shrinkage CMD	%	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 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	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
Dielectric strength in air	kV/mm	≥ 9	≥ 9	≥ 9	≥ 9	≥ 9	≥ 9	≥ 9	≥ 9	≥ 10	≥ 10	≥ 10	≥ 10
Dielectric strength in oil	kV/mm	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60

* Thicknesses < 0.075 mm correspond to the type P.4.1B

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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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