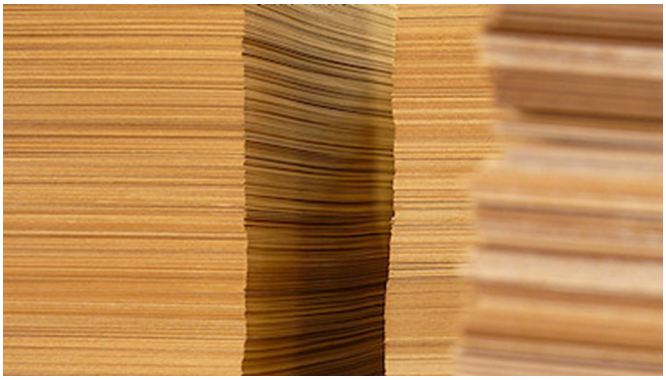
Presspan 3050/3055 surface insulation

Presspan is a well-proven insulation material for surface insulation. The material has very good mechanical properties when impregnated with transformer oil, good dielectrical and good high voltage properties with a mix of oil-cellulose.

Presspan is available in many variants and in a wide range of thicknesses and formats.



Presspan 3050/3055 surface insulation

Applications

Typical applications are insulation mainly in oil-filled transformers as a construction element (interlays, etc.), layer, liner and core insulation.

Properties

- High dielectric strength.
- Very high dielectric strength in oil-filled applications.
- Excellent for cutting, slitting, punching and folding.

Composition

Presspan is cellulose-based and consists of 100% kraft paper pulp.

Colours

Usually brown

Dimensions

Presspan is manufactured in many variants.

- Presspan 3050 manufactured as sheets in thicknesses 0.7–30 mm. It can be punched or cut to desired form or shape. In the case of die-cutting a die tool is required. The tool is available at low costs.
- Presspan 3055 manufactured as rolls in thicknesses 0.05–1.0 mm. It can be cut to the desired width up to the maximum dimensions available.

Other variants like creep insulation tubing, corrugated Presspan, ribbed Presspan and DDP paper (Diamond Dot Paper) are available on request.

Packaging

- Presspan 3050: Sheet sizes and MOQ* in kg on request.
- Presspan 3050 punched articles: MOQ* amount by agreement (with die tool or cut).
- Presspan 3055: Slit-to-width dimensions MOQ* in kg on request.

* MOQ – Minimum Order Quantity

Technical data

Presspan 3050 in sheets

Properties, Presspan 3050, thickness 0.7–3.0 mm										
Dimensions and weight										
Thickness	mm	**0.7**	**0.075**	**0.80**	**0.90**	**1.0**	**1.5**	**2.0**	**2.5**	**3.0**
Thickness tolerance	+/- mm	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.15	0.15
Weight/m^2, ca	g/m^2	875	940	1 000	1 125	1 250	1 875	2 500	3 125	3 750
Weight tolerance	+/- %	10	10	10	10	10	10	10	10	10
Area/kg, ca	m^2/kg	1.1	1.1	1.0	0.9	0.8	0.5	0.4	0.3	0.25
Mechanical properties										
Tensile strength MD	N/mm^2	70	70	70	70	70	80	80	80	80
Tensile strength XD	N/mm^2	50	50	50	50	50	55	55	55	55
Elongation MD	≥ %	6	6	6	6	6	6	6	6	6
Elongation XD	≥ %	8	8	8	8	8	8	8	8	8
Shrinkage	≤ %	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Chemical properties										
Ash content	≤ %	2	2	2	2	2	2	2	2	2
Moisture content	≤ %	8	8	8	8	8	8	8	8	8
Electrical properties										
Dielectric strength	kV/mm	12	12	12	12	12	10	10	10	10

Properties, Presspan 3050, thickness 4.0–30.0 mm										
Dimensions and weight										
Thickness	mm	**4.0**	**5.0**	**6.0**	**7.0**	**8.0**	**9.0**	**10.0**	**20.0**	**30.0**
Thickness tolerance	+/- mm	0.2	0.25	0.25	0.25	0.25	0.25	0.25	0.3	0.4
Weight/m^2, ca	g/m^2	5 000	6 250	7 500	8 750	10 000	11 250	12 500	25 000	37 500
Weight tolerance	+/- %	10	10	10	10	10	10	10	10	10
Area/kg, ca	m^2/kg	0.2	0.15	0.13	0.11	0.1	0.09	0.08	0.04	0.025
Mechanical properties										
Tensile strength MD	N/mm^2	80	80	80	80	80	80	80	80	80
Tensile strength XD	N/mm^2	55	55	55	55	55	55	55	55	55
Elongation MD	≥ %	6	6	6	6	6	6	6	6	6
Elongation XD	≥ %	8	8	8	8	8	8	8	8	8
Shrinkage	≤ %	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Chemical properties										
Ash content	≤ %	2	2	2	2	2	2	2	2	2
Moisture content	≤ %	8	8	8	8	8	8	8	8	8
Electrical properties										
Dielectric strength	kV/mm	12	12	12	12	12	10	10	10	10

Tekniska data

Presspan 3055 on role

Properties, Presspan 3055, thickness 0.05–0.25 mm									
Dimensions and weight									
Thickness	mm	**0.05**	**0.075**	**0.10**	**0,13**	**0.15**	**0.18**	**0.20**	**0.25**
Thickness tolerance	+/- mm	0.005	0.007	0.01	0.01	0.02	0.02	0.02	0.02
Weight/m², ca	g/m²	60	90	125	160	185	225	250	310
Weight tolerance	+/- %	10	10	10	10	10	10	10	10
Area/kg, ca	m²/kg	16.7	11.1	8.0	6.25	5.4	4.4	4.0	3.2
Mechanical properties									
Tensile strength MD	N/mm²	70	70	70	70	70	70	70	70
Tensile strength XD	N/mm²	50	50	50	50	50	50	50	50
Elongation MD	≥ %	6	6	6	6	6	6	6	6
Elongation XD	≥ %	8	8	8	8	8	8	8	8
Shrinkage	≤ %	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Chemical properties									
Ash content	≤ %	2	2	2	2	2	2	2	2
Moisture content	≤ %	8	8	8	8	8	8	8	8
Electrical properties									
Dielectric strength	kV/mm	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5

Properties, Presspan 3055, thickness 0.03–1.00 mm									
Dimensions and weight									
Thickness	mm	**0.30**	**0.40**	**0.50**	**0.60**	**0.70**	**0.80**	**0.90**	**1.00**
Thickness tolerance	+/- mm	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.07
Weight/m², ca	g/m²	375	500	625	750	875	1 000	1 125	1 250
Weight tolerance	+/- %	10	10	10	10	10	10	10	10
Area/kg, ca	m²/kg	2.65	2.0	1.6	1.3	1.1	1.0	0.9	0.8
Mechanical properties									
Tensile strength MD	N/mm²	70	70	70	70	70	70	70	70
Tensile strength XD	N/mm²	50	50	50	50	50	50	50	50
Elongation MD	≥ %	6	6	6	6	6	6	6	6
Elongation XD	≥ %	8	8	8	8	8	8	8	8
Shrinkage	≤ %	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Chemical properties									
Ash content	≤ %	2	2	2	2	2	2	2	2
Moisture content	≤ %	8	8	8	8	8	8	8	8
Electrical properties									
Dielectric strength	kV/mm	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5

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