ELEKTRO-ISOLA

Etronax P EP - Sheet

Components: Colour*: Serial no.: Version no.:	Polyester fabric - Epoxy Yellow 290 V1.0-17/06/15		Closest relevant s IEC 60893: DIN 7735: NEMA LI 1:	standards EP PC 301 - -		
Mechanical properties		Test method	Thickness	Value	Unit	
Bending strength at RT		ISO 178	≥ 1,5 mm	150	MPa	*1
Bending strength at a hi	gh temperature	ISO 178	≥ 1,5 mm	-	MPa	-
Modulus of elasticity		ISO 178	≥ 1,5 mm	4500	MPa	*1
Compressive strength		ISO 604	≥5 mm	450	MPa	*1
Izod impact strength, parallel with layers		ISO 180/2A	≥5 mm	50	Kj/m²	*1
Shearing strength, parallel		ISO 60893-2	≥5 mm	35	MPa	*1
Tensile strength		ISO 527	≥ 1,6 mm	135	MPa	*1
Electrical properties		Test method	Thickness	Value	Unit	
Electrical strength in oil	at 90°C, perpendicular	IEC 60243-1	3 mm	20	kV/mm	*2
Electrical strength in oil	at 90°C, parallel	IEC 60243-1	≥3mm	70	kV/25mm	*2
Permitivity 50 MHz		IEC 62631-2-1	≤3mm	4		*3
Permitivity 1 MHz		IEC 62631-2-1	≤3mm	-		-
Dissipation factor 50 M	łz	IEC 62631-2-1	≤3mm	0.01		*3
Dissipation factor 1 MH	Z	IEC 62631-2-1	≤3mm	-		-
Insulation resistance af	ter submersion in water	IEC 62631-3-3	All	100000	MΩ	*4
Comparative tracking in	dex	IEC 60112	≥3mm	200	CTI	*1

Conditioning		Notes	
1	24h/23°C/50%RH	А	1h/130°C / measured at 130°C
2	24h/23°C/50%RH + 1h/ in oil at 90°C	В	1h/150°C / measured at 150°C
3	96h/105°C + 1h/23°C/20%RH	С	Halogen free
4	24h/50°C/<20% RH + 24h in water at 23°C	D	1h/180°C / measured at 180°C
5	96h/105°C + 1h/ in oil at 90°C	Е	1h/200°C / measured at 200°C

The above values are average values resulting from extensive tests in our laboratories. ELEKTRO-ISOLAA'S disclaims any and all liability for the performance of our materials in applications outside our control. Elektro-Isola A'S reserves the right to modify the above data without notice or further information. Furthermore, we refer to our general disclaimer.

* Note that color and surface are indicative. As this is a technical product, colour and expression may vary according to dimensions, batches and machining. If you want further information or have special decorative needs, please feel free to contact us.



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Physical and thermal pro	operties	Test method	Thickness	Value	Unit
Temperature index 20,0	00 h (T.I.)	IEC 60216	≥ 3 mm	130	°C
Fire class		IEC 60695-11-10	-	-	-
Density		ISO 1183-A	AI	1.35	g/cm³
Water absorption		ISO 62-1	50x50x3 mm	20	mg
Smoke emission & toxic	ity	EN 45545-2; R22, R23 & R24	-	-	-
Oxygen Index (OI)		EN ISO 4589-2	-	-	%
Smoke density (Ds max	.)	EN ISO 5659-2	-	-	-
Smoke density (Ds max	.)	EN ISO 5659-2	-	-	-
Toxicity (CIT _{NLP})		NF X 70-100-1/-2	-	-	-

Characteristics and applications

The material is distinguished by being strong and tough. Very low water absorption and lowest swelling in water. High chemical resistance, e.g. to SF6 gas. Suitable for high-voltage circuit breakers where SF6 gas is used as insulation medium.

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