

## Product Data Sheet PF CP 308

Property	Method of test	Unit	max. or min.	Ref. Value IEC 60893-3-4	Test value (median)
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### Mechanical properties

Flexural stress at rupture perpendicular to laminations	ISO 178	MPa	min.	<b>85</b>	150,08
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	7000*	11207
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	250*	290,31
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m <sup>2</sup>	min.	-	12,05
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	20*	33,2
Tensile strength	ISO 527-4	MPa	min.	70*	105,52

### Electrical properties

Insulation resistance after immersion in water	IEC 60167	MOhm	min.	<b>1.000</b>	251
Comparative tracking index CTI	IEC 60112	CTI	min.	100*	120

### other properties

Thermal endurance	IEC 60216	T.I.		100*	
Density	ISO 1183	g/cm <sup>3</sup>		1,3 - 1,4*	1,538
Water absorption	ISO 62	mg	max.	149***	121,10
Flammability	IEC 60707	Kategorie		<b>V-1</b>	V-0

Base material Cellulotic paper  
Matrix resin: Phenolic

\* Typical values as per IEC 60893-4. They shall not be considered as specification requirements.

\*\* for thickness  $\geq 3,0$  mm

\*\*\* for test specimens 50 x 50 x 10 mm

Test values are derived from an average type test

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### Fire behaviour and fire side effects of materials and parts DIN 5510 – 2

flammability group	DIN 5510 T.2	class			S 4
smoke emission class	DIN 5510 T.2	class			SR 2
drop forming category	DIN 5510 T.2	class			ST 2

### Fire testing at DIN EN 45545-2:2013

#### R22 HL 3

Oxygen index	T01	EN ISO 4589-2	Vol. %	min.	32	38,2
Smoke density $D_s$ max	T10.3	EN ISO 5659-2		max.	150	13
Smoke toxicity CIT <sub>NLP</sub>	T12	NF X 70-100		max.	0,75	0,13

#### R23 HL 3

Oxygen index	T01	EN ISO 4589-2	Vol. %	min.	32	38,2
Smoke density $D_s$ max	T10.3	EN ISO 5659-2		max.	300	13
Smoke toxicity CIT <sub>NLP</sub>	T12	NF X 70-100		max.	1,5	0,13

#### R24 HL 3

Oxygen index	T01	EN ISO 4589-2	Vol. %	min.	32	38,2
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### Glowing/hot-wire based test methods

Glow-wire flammability index <b>GWFI</b>	DIN EN 60695-2-12				
Glow-wire ignition temperature <b>GWIT</b>	DIN EN 60695-2-13				

### RoHS- Declaration

This material does not contain any substances of very high concern as listed in the EU directive 2011/65/EU, article 4, paragraph 1