	<b>LABORATORY TEST REPORT</b>	Rev : 00
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## 1. Test Fields


The test is made to report on the following points:

- The comparative tracking index (CTI) of the PR 700
- The dielectric strength of the PR 700 according to DIN EN IEC 60243-1 : 1999-03

## 2. Results:

- Erosion depth: 0,1 mm (specifications of CTI<1 according to DIN EN ISO 60112: 2010)
- Dielectric Strength: 34.9 kV/ mm according to DIN EN IEC 60243-1 : 1999-03

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### 3. Preparation of the specimens

The specimens has been prepared more than 48h and stabilized at 23°C/50 % RH.

### 4. Test implementation

#### *4.1 Comparative tracking index (CTI) according to DIN EN IEC 60112 : 2010-05*

##### Test conditions :

Testing liquid :	Solution A
Testing voltage :	600 V
Shutdown criteria :	0.5 A ; 2 s
Specimen area :	Ca. 20 mm x 20 mm
Specimen thickness :	Ca. 2.9 mm, double-laid
Number of specimens :	20
Test temperature :	21.5°C
Relative air moisture :	54 %


#### *4.2 Dielectric strength according to DIN EN IEC 60243-1 : 1999-03*

##### Specimen data:

Dimensions:	100 mm x 100 mm x 0.8 mm
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##### Test conditions:

Testing voltage:	Max. 50 kV AC, 50 Hz
Electrodes:	Plate Ø 25 mm – Plate Ø 75 mm
Input voltage:	Ca. 2000 V/s
Rigidity criteria:	10 mA longer than 15 µs
Test medium:	Insulating oil according to IEC 60296: 2012-12 (ISOVOLTINE II)
Number of specimens:	10
Test temperature:	21.6°C
Relative air moisture:	52 %

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## 5. Data

### 5.1 Comparative tracking index (CTI) according to DIN EN IEC 60112 : 2010-05

	Erosion depth [ mm ]	Characterization according to DIN EN ISO 60112: 2010
PR700	0.10	CTI 600 < 1

### 5.2 Dielectric strength according to DIN EN IEC 60243-1 : 1999-03

Test piece N°	Time until breakdown [ s ]	Average specimen thickness [ mm ]	Voltage at breakdown [ kV ]	Dielectric Strength [ kV / mm ]	Breakdown or Flashover B or F
1	13.2	0.76	26.4	34.6	B
2	14.5	0.81	29.0	36.0	B
3	14.9	0.89	29.8	33.3	B
4	14.7	0.75	29.4	39.3	B
5	14.6	0.85	29.3	34.4	B
6	14.1	0.74	28.1	37.8	B
7	12.4	0.75	24.7	33.0	B
8	14.3	0.82	28.6	34.9	B
9	13.4	0.74	26.8	36.4	B
10	15.1	0.81	30.3	37.3	B
<b>Median</b>			<b>28.6</b>	<b>34.9</b>	

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