



IBIX PolyHotCote-A (PHC-A) thermoplastic thermal spray powder is based on a modified polyolefin. Below is the test report extract performed on Electric Strength.

Test Method:

Electric Strength measured to IEC 243:1988, with rapid voltage rise.

Equipment used:

Medium voltage test system, No.76-023.

Material:

Metal substrate with a coating of PolyHotCote-A (PHC-A) white 110.

Specimen dimensions:

Five specimens tested, approx. 150x150mm. Coating thickness value 370 \pm 10 μ m.

Electrodes:

Stainless steel 25mm diameter upper electrode. Metal substrate used as earth electrode, connection made by grinding away some of the coating on the reverse

side of specimen.

Electrode cleaning:

Initially cleaned with tissue and isopropyl alcohol and after each breakdown wiped

with dry paper towel.

Preconditioning:

>24 hours at 50±5% RH and 23±2°C.

Rate of rise of test voltage:

Rate of voltage rise selected to produce failure in 10 to 20 s.

Surrounding medium:

Clean transformer oil.

Results:

Specimen No.	Breakdown Voltage kV rms	Thickness near Breakdown mm	Electric Strength kV rms/mm
1	16.0	0.37	43.2
2	18.8	0.37	50.8
3	17.4	0.37	47.0
4	16.6	0.37	44.9
5	19.6	0.37	53.0
Electric Strength median value			47.0 kV/mm
Mean Electric Strength value			47.8 kV/mm

IBIX SRL

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