

Elcometer 155 Uncured Powder Film Comb

Can be used in accordance with:
ASTM D7378-A



The Elcometer 155 is designed to measure uncured powder coating film thickness. This enables the application system to be set up and fine tuned prior to the curing process. In turn, this will reduce the amount of scrap and over-spray.

Place the comb into the powder and slide the comb along the surface. The measurement points (or teeth) are pointed and allow the powder to flow around them.

The thickness of the powder lies between the highest value where a drag mark is visible and the lowest value where a drag mark has not been produced.

Note: The thickness of a coating prior to cure is not the same value after curing but there is a correlation. The powder comb is suitable as a guide only.

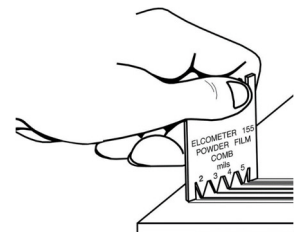
Technical Specifications

Part Number	Description	Range	Certificate
B15513573-5	Elcometer 155 Metric Powder Film Comb	50 - 255µm	o
B15513573-6	Elcometer 155 Metric Powder Film Comb	225 - 1250µm	o
B15513573-10	Metric Comb Set (2 combs)	50 - 225µm and 225 - 1250µm	o
Accuracy	±5µm		
Dimensions	38mm x 46mm		
Weight	18g		

o Optional Calibration Certificate available.

Packing List

Elcometer 155 Metric Powder Film Comb
Powder Comb Wallet for Two Combs



Test Method

The use of powder to coat a product has, up until now, one drawback - the ability to measure the uncured powder thickness.

With a wet film comb, the comb is placed perpendicular to the coating and removed, and the thickness read. With a powder, this technique cannot be used as the powder would simply be crushed thereby making the test meaningless as it is necessary to have the two end teeth touching the substrate.

To this end, the Elcometer 155 Uncured Powder Comb, is placed perpendicular to the coating and drawn across the surface - thereby generating lines in the powder where the comb teeth touch it.

The uncured powder film thickness lies between the biggest value tooth generating a line in the powder and the smallest value tooth which has not generated a line in the powder.