

Elcometer 5100 Payne Permeability Cups

The Elcometer 5100 Payne Permeability Cups are made of anodised aluminium and are used to determine the permeability of films of paints, varnish, plastic, cellophane, etc.

The water evaporates or is absorbed and, after a certain time, the weight change relative to the film thickness is calculated, indicating the degree of permeability or permeance.



STANDARDS:

ASTM D1653, ASTM E96, ISO 7783-1, ISO 7783-2

Technical Specification

Part Number	Description	Area		Volume	
		cm ²	inches ²	cm ³	inches ³
K0005100M201	Elcometer 5100/1 Payne Permeability Cup	10	1.55	15	0.91
K0005100M202	Elcometer 5100/2 Payne Permeability Cup	30	4.65	50	3.05
K0005100M203	Elcometer 5100/3 Payne Permeability Cup	30	4.65	75	4.58
Packing List	Elcometer 5100 Payne Permeability Cup, storage case and operating instructions				

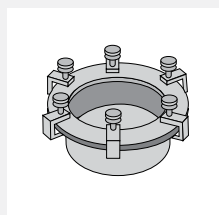
Accessories

Part Number	Description	Chart Dimensions		Quantity per Box
		mm ²	inches ²	
K0004695M112	Leneta Chart RP-1K	219 x 286	8.62 x 11.26	250

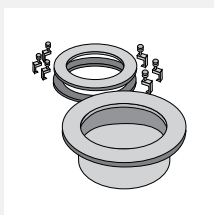


For use with Elcometer 8720 compact balance.

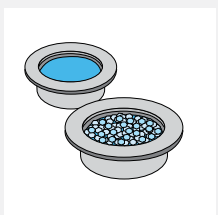
How to use Payne Permeability Cups



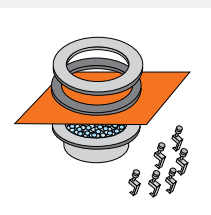
Prepare the film to be tested using a film applicator and suitable test chart.



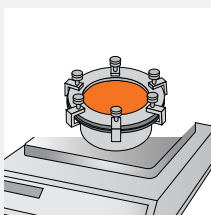
Disassemble the permeability cup.



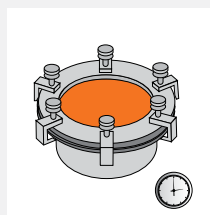
Fill with required liquid (typically water) or dry desiccant (absorbent).



Place the film on to the cup and reassemble making sure the gasket is fitted first.



Weigh the prepared permeability cup and record the result (in grams).



Leave for appropriate time, re-weigh, calculate the change in mass (Δm) & water vapour transmission rate.

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