HX204 Halogen Moisture Analyser

Mettler Toledo

MEASURED PARAMETER	Moisture content
DETECTION METHOD	Thermogravimetric
RANGE	Sample mass 0.1 g to 200 g
	Temperature 40 °C to 230 C
	Moisture ≥ 0.01 %
APPLICATION	Testing the moisture content in plastics and salts
MATERIALS	Solids
	Liquids

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Moisture affects the processability, shelf life, usability and quality of numerous products such as phase change materials, dispersions, pharmaceutical substances, plastics and food. Information on moisture content and its monitoring are therefore extremely important. For most substances there is an optimal moisture content where it exhibits the best processing results and thus enables the highest product quality.

The halogen moisture analyser by Mettler Toledo determines the moisture content of the sample by drying it and recording its weight loss. The advantage of this device in comparison to the conventional determination by the means of a drying oven lies in the uniform heating of the sample material as well as the halogen heating module that enables rapid heating. Since the weight loss is being measured and recorded throughout the entire drying process, it provides an insight into the process of moisture loss.

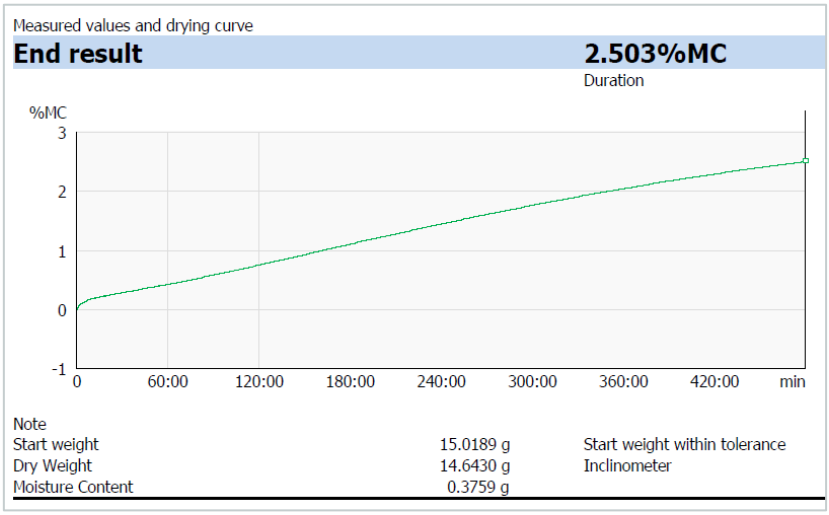

Fig. 1
First part of a report on a moisture content measurement of a sample of polyamide 66 (nylon). The graph shows the calculated water content in percent based upon the measured weight loss.

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