



OPTIMET

OPHIR

A Newport Corporation Brand

Plastic with Holes

Executive Summary

Optimet's Conoline with a 25 mm lens was used in the application of plastic inspection. The main goal of the inspection was to measure the sample's surface and its hole depths. Two kinds of the samples were supplied:

1. Grey plastic - itp0
2. Black plastic - ktpv

Only the grey plastic (itp0) was measured.

1. Optimet's Advantages over Other Technologies:

1. Unique collinear technology
2. Capability to measure sharp angles in minimum clearance
3. High lateral resolution
4. High sampling rate with no need for averaging

2. Application Description

Plastic sample scanning using Optimet's Conoline with a 25 mm lens.

3. Results and Observations

Grey Sample

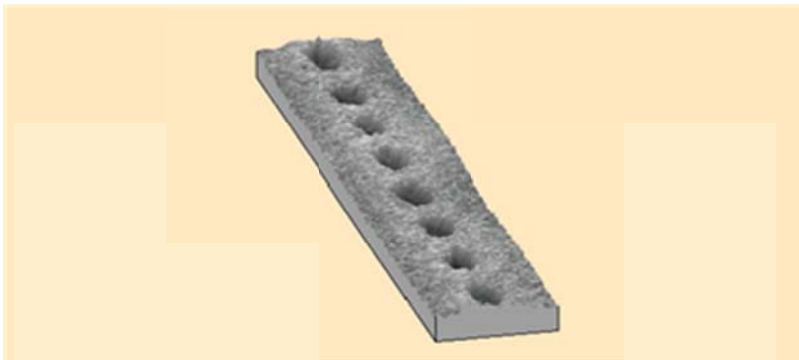


Figure 1 - 3D presentation of the sample

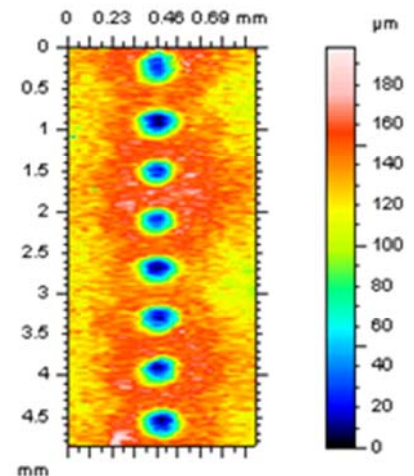


Figure 2 – Sample surface after “waviness subtraction”



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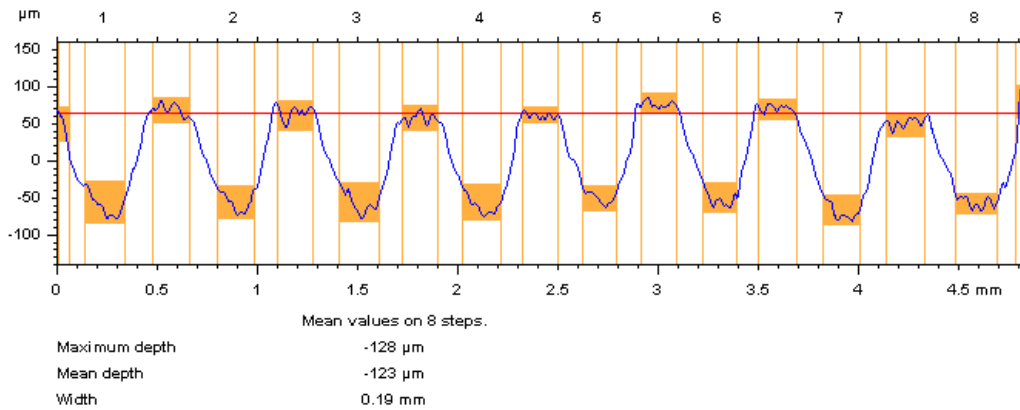


Figure 3 – Hole depth measurements

4. Data

Parameter	Value
Reflective/Diffusive/Transparent/Translucent	Diffusive
Working Range (mm)	1.8
Precision (µm)	5
Stand Off (mm)	13
Max. Data Rate (mm/sec)	-
Lateral Resolution	-
Z Resolution	-
Application Category	-