Novo-Curve 4 Application Notes

GLOSS MEASUREMENT OF MOULDED PLASTIC PARTS

NOVO-CURVE

Novo-Curve Glossmeter

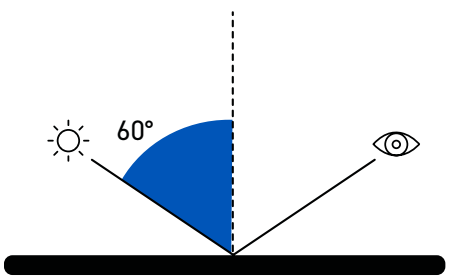
- Curved & flat surfaces
- Small areas
- Highly polished metals
- Matt finishes

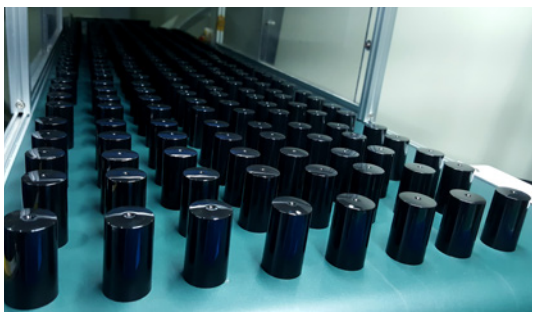
Overview

Gloss has been defined as 'The attribute of surfaces that causes them to have shiny or lustrous, metallic appearance.'

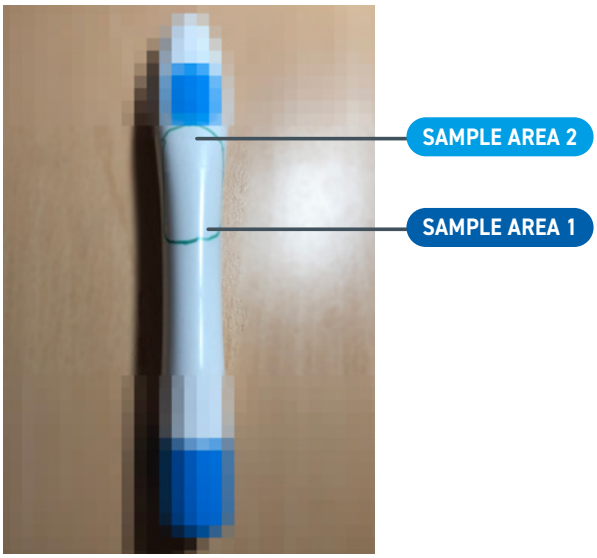
Manufacturers design their products to have maximum consumer appeal. Traditionally, a high gloss finish is often perceived to be a higher quality product and can therefore command a price-premium.

It is for these reasons that many manufacturers monitor the gloss of their products to ensure batch-to-batch consistency of their products.





METHOD Measuring the gloss of moulded plastic parts



STEP 1: The two sections of the part were separated for measurement.

STEP 2: Using the continuous read setting on the Novo-Curve the sample areas were measured and the maximum values recorded for each area.

This was repeated 6 times lifting and replacing the sample each time along the marked area on the surface.

STEP 3: Different values were measured along the measuring beam axis (sample in line with axis) to values measured across the sample (sample at 90 degrees to measurement axis).

RESULTS Findings of measurements

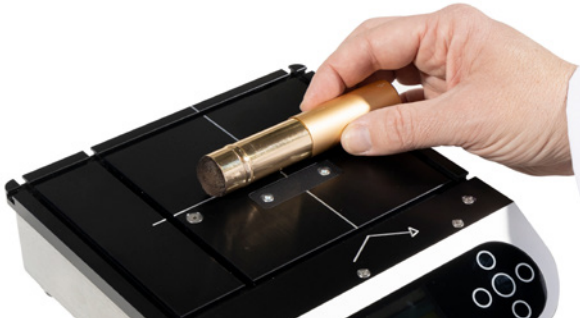
Measurement	Gloss 60 (Peak) 1	Gloss 60 (Peak) 2	Gloss 60 (Peak) 3	Gloss 60 (Peak) 4	Gloss 60 (Peak) 5	Gloss 60 (Peak) 6
Sample area 1	31.6	33.1	38.7	40.1	38.5	36.9
Sample area 2	10.5	11.7	16.1	13.6	16.5	14.7

CONCLUSION Observations of results

It was possible to obtain accurate peak (actual) gloss measurements for each part.

It may also be useful to consider a custom location adaptor for the samples, this can be 3d printed to suit each part which should improve accuracy due to improved location.

Features of the Novo-Curve

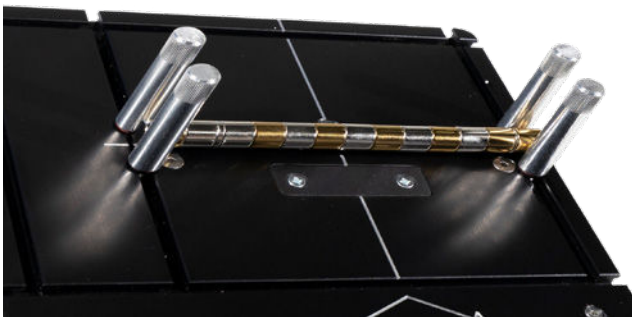


Simple checking of curved surfaces

For curved surfaces, the correct gloss value is the peak value identified on the sample. Continuous read mode on the Novo-Curve 4 greatly simplifies this process.

Certainty of measurement

For improved gloss control, calibrate on a standard that matches closest to your sample. Additional standards are available from matt to mirror finish.



Repeatable sample positioning

Bespoke sample securing systems allow multiple samples to be measured in exactly the same place*.

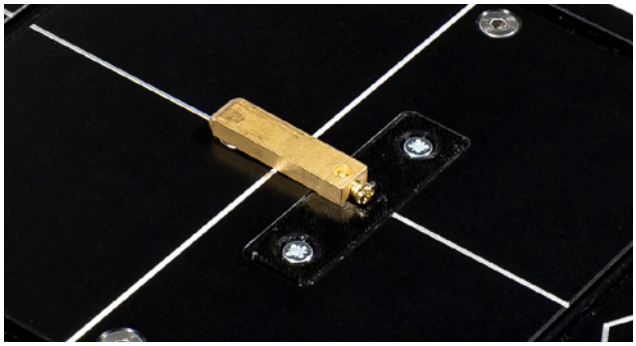
*Requires additional accessory

Hands free sample measurement

The optional footswitch enables the user to easily manipulate the sample for measurement.

Measurement of small samples

Measure samples too small to be measured with a standard glossmeter.



Custom Part Adaptors

For an exact fit for small complex shapes, a custom cutout enables the sample to measured in exactly the same spot each time.

FULL PRODUCT DETAILS

VIEW DATA SHEET

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TRY BEFORE YOU BUY

We offer two options for you to try out the Novo-Curve Glossmeter before buying

1. **Online demonstration:** Online presentation of the Novo-Curve Glossmeter with your samples measured LIVE on Zoom, Microsoft Teams or Skype. Includes a consultation with an application specialist

2. **Factory sample testing:** Send in samples of your material for testing and receive a comprehensive test report

Arrange a demo

Ready to receive a quote? **Click here**

Rhopoint Instruments Ltd
Rhopoint House, Enviro 21 Park,
Queensway Ave South,
St Leonards on Sea, TN38 9AG, UK

T: +44 (0)1424 739 622
E: sales@rhopointinstruments.com
www.rhopointinstruments.com

Rhopoint Americas Inc.
1000 John R Road,
Suite 209, Troy,
MI 48083, USA

T: 1.248.850.7171
E: sales@rhopointamericas.com
www.rhopointamericas.com

Rhopoint Instruments GmbH
Seebauer Office Center,
Am Weiglfeld 24,
83629 Weyarn, Deutschland

T: +49 8020 9214-988
E: info@rhopointinstruments.de
www.rhopointinstruments.de

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