

Case Study

Roughness Tester

PCE-RT 1200

PCE Americas Inc.
 711 Commerce Way
 Suite 8
 Jupiter
 FL-33458
 USA
 From outside US: +1
 Tel: (561) 320-9162
 Fax: (561) 320-9176
 info@pce-americas.com

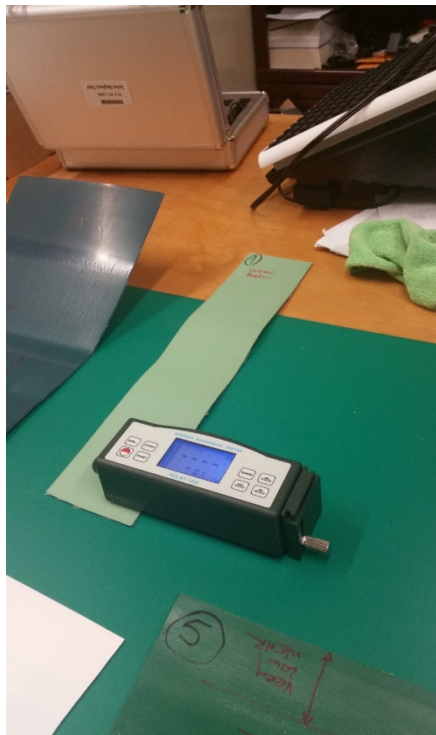
PCE Instruments UK Ltd.
 Units 12/13
 Southpoint Business Park
 Ensign way
 Hampshire / Southampton
 United Kingdom, SO31 4RF
 From outside UK: +44
 Tel: (0) 2380 98703 0
 Fax: (0) 2380 98703 9
 info@pce-instruments.com

www.pce-instruments.com/english
www.pce-instruments.com

Before testing began, the PCE-RT 1200 Roughness Tester was calibrated using the included roughness standard in accordance with the calibration process outlined in the user manual. The PCE-RT 1200 was then set to measure the **Ra parameter in microns (μm) with a cutoff length of 2.5 millimeters (mm)**. These settings were maintained throughout the testing process to ensure a true comparison.

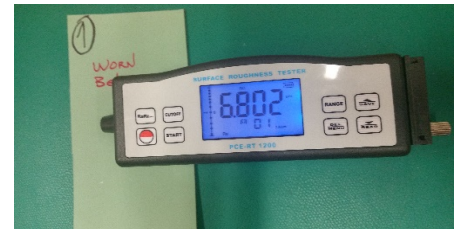
Belt Sample #1 – Worn Light Green Belt

The PCE-RT 1200 Roughness Tester was placed in three different positions on Belt Sample #1. For reporting purposes, these positions are labeled as top, middle and bottom, respectively. Measurements were made from top to bottom with the #1 appearing face up in the top corner of the sample.



Measurement Results

| | |
|--------|---------------------|
| Top | 6.802 μm |
| Middle | 6.942 μm |
| Bottom | 6.569 μm |





Belt Sample #2 – Worn Teal Belt

The PCE-RT 1200 Roughness Tester was placed in five different positions on Belt Sample #2. These positions were labeled by the customer as relatively new, worn, dry rot, worn and relatively new. Measurements were made from top to bottom with the #2 appearing face down in the top corner of the sample.

Measurement Results

| | |
|----------------|---------------------|
| Relatively New | 0.439 μm |
| Worn | 0.366 μm |
| Dry Rot | 7.834 μm |
| Worn | 2.967 μm |
| Relatively New | 0.431 μm |



Belt Sample #3 – Worn White Belt with Blue Vertical Striping

The PCE-RT 1200 Roughness Tester was placed in three different positions on Belt Sample #3. For reporting purposes, these positions are labeled as top, middle and bottom, respectively. Measurements were made from top to bottom with the #3 appearing face up in the top corner of the sample.

Measurement Results

| | |
|--------|---------------------|
| Top | 0.477 μm |
| Middle | 0.510 μm |
| Bottom | 0.457 μm |



Belt Sample #4 – Worn White Belt with Blue Horizontal Striping

The PCE-RT 1200 Roughness Tester was placed in three different positions on Belt Sample #4. For reporting purposes, these positions are labeled as top, middle and bottom, respectively. Measurements were made from top to bottom with the #4 appearing face up in the top corner of the sample.

Measurement Results

| | |
|--------|---------------------|
| Top | 0.856 μm |
| Middle | 0.744 μm |
| Bottom | 0.744 μm |



Belt Sample #5 – Worn Green Belt

The PCE-RT 1200 Roughness Tester was placed in three different positions on Belt Sample #5. These positions were labeled by the customer as very low wear, worn and very low wear. Measurements were made from top to bottom with the #5 appearing face up in the top corner of the sample.

Measurement Results

| | |
|---------------|---------------------|
| Very Low Wear | 26.64 μm |
| Worn | 13.98 μm |
| Very Low Wear | 23.73 μm |

