

## Areas of application

- Incoming goods control
- Quality assurance of the compounding or injection molding process
- Weldability validation, process sampling

## Features

- Optically power-regulated laser diode for stable measurements
- Fiber-coupling of the measurement beam for an homogeneous, rotation-symmetrical intensity profile
- Fastening option for component-specific holding
- Comfortable one-hand operation

### Technical Data: LPKF LQ-TMG 2

<b>Laser class</b>	1M
<b>Laser wavelength</b>	850 nm
<b>Power supply</b>	9 V battery operation
<b>Measurement resolution</b>	0.1 %
<b>Measurement aperture diameter</b>	1.5 mm
<b>Focus diameter of the measurement aperture</b>	approx. 0.4 mm

www.jenko-sternberg.de

## Handheld Transmission Measurement for Plastics LPKF LQ-TMG 2



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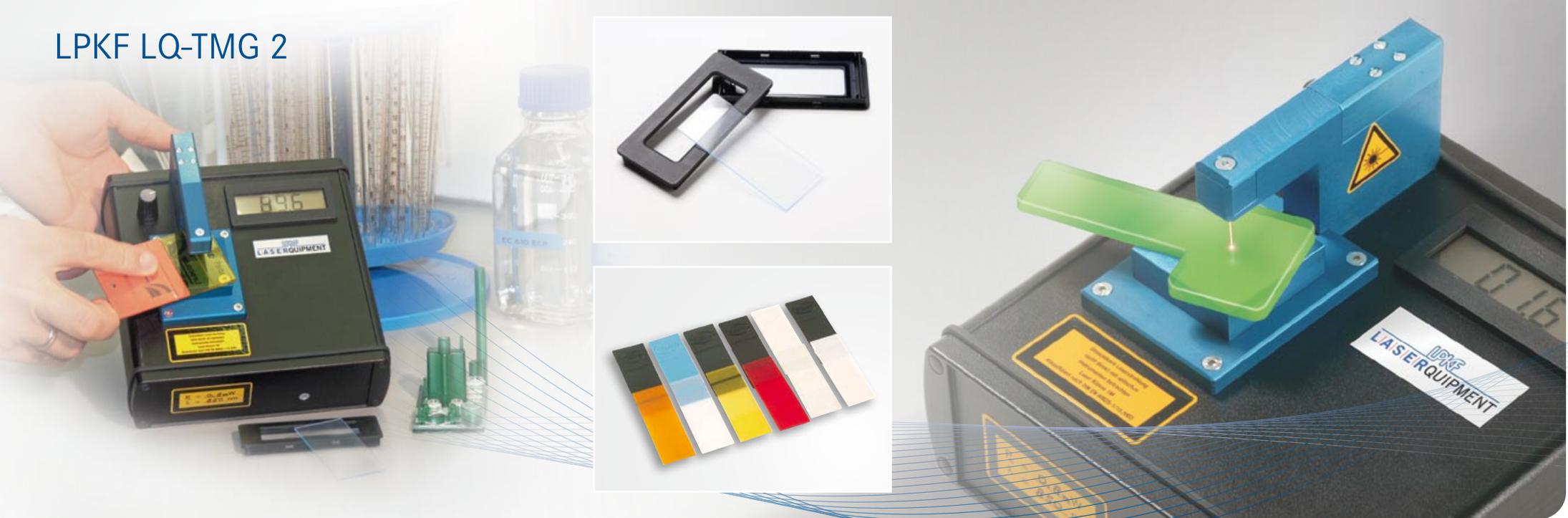
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## LPKF LQ-TMG 2



### Preventive quality assurance

The optical transmission of a plastic is crucial for the quality of the welded joint. This material property can be influenced by the upstream processes of compounding and injection molding. A quick and easy check of the optical transmission is an essential part of integrated quality assurance.

The LQ-TMG 2 measures the laser energy transmitted through a plastic sample. This is done by passing a laser beam through the sample, and measuring its intensity as it leaves the sample.

### Perfect and reliable

Because the measured light intensity of a laser beam in a test reference with no sample is given as 100 percent, no additional calibration is required for this relative testing method. The precise positioning of the sample in the reader is also guaranteed. An optional component-specific holder ensures valid, reproducible measurement results.

The LQ-TMG 2 is battery operated and classified as laser class 1M. It is therefore approved for mobile use, and can be used without any additional safety measures. Its rugged aluminium pressure-cast housing also makes it ideal for use under industrial production conditions.

### Better safe than sorry

The LQ-TMG 2 enables the transparency properties of plastics to be checked quickly and easily. It only takes a few seconds to check that the actual transparency figures match the set values determined during process definition.

Testing reveals any deviations in the materials before an unsuitable component enters the production process.

Two independent tests conducted by major automobile subcontractors have confirmed:

**The LQ-TMG 2 is the best and fastest testing system currently on the market.**