

Transmission Tester for Plastics

LPKF TMG 2



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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 LPKF TMG 2 determines the radiation transmitted through a plastic sample in accordance with DVS regulation 2243. This is done by passing a laser beam through the sample, and then detecting its intensity as it leaves the sample.



Perfect and Reliable

Because the detected light intensity of a laser beam in a test reference with no sample is given as 100%, 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 test results.

The LPKF TMG 2 is mobile, battery-powered, and can be used with no additional safety measures (laser class 1M). Its rugged aluminum pressure-cast housing also makes it ideal for use under industrial production conditions.



Better Safe than Sorry

The LPKF transmission testers enable the transparent properties of plastics to be checked and proved 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 studies conducted by major automobile subcontractors have confirmed:

The LPKF TMG 2 is the best and fastest testing system currently on the market.



Areas of Application

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

Features

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

Technical Data: LPKF TMG 2

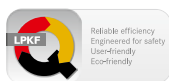
Laser class	1
Laser wavelength	850 nm
Power supply	9 V battery operation
Diameter of the sensor aperture	1.8 mm
Focus diameter of the laser beam	~0,4 mm

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