

MATERIAL FLOW INDEX TESTER / PLASTOMETER

PCE-MFI 400



- » Large 7" TFT touch display
- » Clear display
- » Heating temperature up to 400°C / 752°F
- » Pre-set materials
- » Robust metal housing
- » Various weights included
- » ***220 VAC only: 110:220 (5000 Watt)
Transformer included for US customers

Material Flow Index Tester / Plastometer

The Plastometer from PCE Instruments is used for fast testing of the melt mass flow rate of plastics. The plastometer is suitable for incoming inspection as well as for production monitoring. Due to the clear presentation of all relevant parameters on the display, the results of the melt index test can be displayed in a short time with the help of the plastometer. The automatic cutting function increases the reproducibility of the melt flow index test.

Stored standard plastics save the user of the plastometer configuration procedures. The stored plastics include: Polystyrene (PS), Polypropylene (PP), Polyethylene (PE), ABS, Polycarbonate (PC), Polymethylmethacrylate (PMMA), POM, MABS, SAN, E/VAC and others. In addition to the already integrated standard plastics, the test temperatures and test weights according to the standard (ISO 1133) are stored in the plastometer. Plastics with material-specific parameters that are not stored can be permanently added and saved in the plastometer as required.

The plastometer is therefore very well suited for determining the melt flow index rate, which provides information about the flow behaviour or viscosity of plastics at different temperatures and pressures. During this melt flow index test according to ISO 1133, the plastic granulate sample is placed in a preheated cylinder. In the cylinder, the granulate is heated at a material-specific temperature.

Specification

Melting rate

Measuring range 0,1 ... 400 g / 10 min

Resolution 0,1 g / 10 min

Temperature

Measuring range 50 ... 200 °C

Resolution 0,1 °C

Accuracy ±0.5 °C

Temperature

Measuring range 200 ... 300 °C

Resolution 0,1 °C

Accuracy ±1 °C

Temperature

Measuring range 300 ... 400 °C

Resolution 0,1 °C

Accuracy ±1.5 °C

General technical data

Display type LC touch display

Display size 7 Inch

Display resolution 800 x 480 pixels

Standard(s) ISO1133-1997, ASTM 1238-04C, GB/T3682-2000

Automatic power-off from...to 1 ... 12 h

Test specimen 0.325 ... 21.6 kg

Dimensions
Test plunger: Ø 9.48 mm
Extrusion nozzle: Ø 2.095 mm

Menu language English, German, English (GB)

Protection class (device) IP30

Power supply 90 ... 264 V AC

Connector type Schuko plug

Operating conditions 0 ... 50 °C , 20 ... 85 % RH

Storage conditions 0 ... 50 °C , 20 ... 85 % RH

Dimensions (L x W x H) 500 x 320 x 500 mm

Weight 15000 g