

PolyVISC®

High Temp Dilute Solution Polymer Viscometer

For Dilute Solution Viscosity of Polymers in Organic Solvents to 135 °C
ASTM D1601, ASTM D2857, ASTM D4020, ISO 1628-1, ISO 1628-3

PolyVISC® is a fully automated, benchtop capillary viscometer with an 11 position sample handler for unattended processing and testing of the dilute solution viscosity of polymers dissolved in organic solvents. The ultra-stable thermostatic air chamber provides temperature control to 135 °C.

Common Applications

- Elastomers
- Plastics
- Thermoplastic elastomers
- Copolymers
- Resins

Product Features & Benefits

Designed to meet specific polymer industry needs

- Specialized software determines relative, inherent, reduced and intrinsic viscosity
- Temperature range: 100 °C to 135 °C ± .03 °C
- Viscosity range: 0.3 mm²/s (cSt) to 30 mm²/s (cSt)

Compact, robust design

- Efficient, bench-top design conserves valuable lab space

Fully automated bench-top testing

- User-friendly software controls sampling, measurement and viscometer tube washing and drying
- 11 position sample handler allows unattended operation
- Automation reduces operator to operator variability

Simplified maintenance & test versatility

- Utilizes infrared sensor technology
- AIRBATH® chamber permits rapid temperature adjustment and viscometer tube replacement without the inconvenience of messy bath liquids
- Uses modified Ubbelohde tubes
- Optional volatile sample inserts protect from solvent evaporation, enhances precision and reduces toxic/corrosive vapors in the AIRBATH® chamber
- LIMS routing compatible



Includes professional installation, software, a viscometer tube, standards and a high precision digital thermometer.

CANNON
INSTRUMENT COMPANY

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PolyVISC® High Temp Dilute Solution Polymer Viscometer

Ordering Information

PolyVISC® High Temp Dilute Solution Polymer Viscometer includes a waste receiver assembly, a viscometer tube, a set of oil viscosity standards, a case of glass vials, a high precision digital thermometer with probe, data storage/management software and professional installation. Comes with fluorinated thermoplastic components for extended wear. Specify desired factory installed options and viscometer tubes when ordering. Computer is not included.

Description	Part #
PolyVISC HIGH TEMP 100 VAC, 50/60 Hz	9724-Z24
PolyVISC HIGH TEMP 115 VAC, 50/60 Hz	9724-Z25
PolyVISC HIGH TEMP 230 VAC, 50/60 Hz	9724-Z26

Accessories & Consumables

Description	Part #
Viscosity reference standards	various
PTFE lined bottle cap, 1 each	03.5132
Vials (20 mL clear glass); case of 144	65.0025
Vials (20 mL clear glass); case of 40	81.3023
FKM Sample cap liner with slits, 1 each	65.3887
BoPET volatile sample cap liner, 1 each	65.3281
Screwcap lids (24 mm opening); case of 144	65.0026
Spare parts kit (for 1 year)	65.4525

Product Specifications

Max. throughput	6 tests per hour
Automated sample capacity	11
Viscosity range	0.3 mm ² /s (cSt) to 30 mm ² /s (cSt)
Timing resolution	0.01 s
Temperature range & accuracy	100 °C to 135 °C ± 0.03 °C
Minimum sample/solvent volume	10 mL sample/20 mL solvent per test
Operating conditions	15 °C to 30 °C, 10% to 75% relative humidity (non-condensing), Installation Category II; Pollution Degree 2
Electrical specifications	100 VAC, 50/60 Hz; 115 VAC, 50/60 Hz; 230 VAC, 50/60 Hz; 1850 watts power consumption
Compliance	CE Mark; EMC directive (2004/108/EC); Low voltage directive (2006/95/EC); HI-POT (1900 VDC, 60 sec.); ROHS
Data output	RS-232 and RS-485

Viscometer Tubes

Kinematic Viscosity Range in mm ² /s (cSt)	
0.14-14	0.3-30

PolyVISC Solution Preparation System (SPS)

Description	Part #
Single titrator with balance	9724-Z61
Single titrator, no balance	9724-Z64
Single titrator, no balance, manual mode only	9724-Z65

Please inquire with questions regarding the proper SPS for your system.

CANNON Instrument Company® provides a variety of physical property testing equipment and consumables (vials, bath fluids, and reference materials) for your testing needs. To learn more, contact sales@cannoninstrument.com.



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