SEPAP MHE



Accelerated Photoaging
and UV-Durability Testing
Instrument

ATLAS
MATERIAL TESTING SOLUTIONS

AMETEK

SEPAP MHE FEATURES AND BENEFITS

The SEPAP MHE is designed to perform accelerated photo-aging of polymers with the aim of understanding the aging mechanisms of polymers exposed outdoors and examining the chemical evolution at a molecular level.

Using a mercury vapor lamp, the SEPAP MHE is able to replicate and accelerate the chemical mechanisms responsible for the gradual loss in properties of polymers during their lifetime. The SEPAP MHE is capable of operating in a medium accelerated and high accelerated mode by controlling the irradiance between 90 W/m² and 300 W/m² (290-420 nm) – comparable to approximately 5x natural solar radiation.

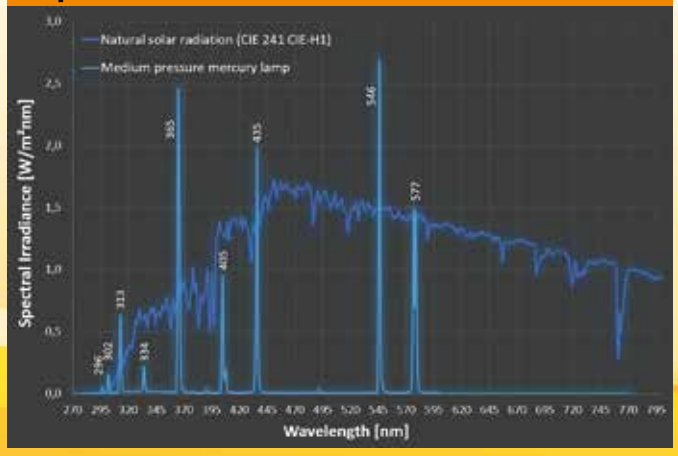
SEPAP becomes the preferred choice whenever the question being asked is "What is the UV durability of this material?" rather than "How will this material weather outdoors?".



Standards	SEPAP MHE	
EN	16472 50289-4-17 13206 13207	13655 14932 15534-1
NF	C32-062-1 F 01.281-1	AC T51-808 XP F51.201-2
Peugeot	D27 5435	
Renault	D27 3064	
ISO	10640 (Methodology for assessing polymer photoaging) 12856-1	

- 1 x 1000 W mercury vapor lamp
- Irradiance range of 90 - 300 W/m² (290 nm - 420 nm)
- 1040 cm² exposure area
- 10.1'' XenoTouch II user interface
- Radio-controlled on-rack light and BST monitor XENOSENSIV
- Precise control of irradiance, Black Standard Temperature (BST) and chamber air temperature (CAT)
- Relative humidity control using ultrasonic humidifiers (SEPAP MHE+)
- Specimen spray with 60 liter integrated water reservoir (SEPAP MHE+)

Spectral Power Distribution



XenoTouch II User Interface and WXViewII™

SEPAP MHE is equipped with a large 10.1'' XenoTouch II UI. With same self-explanatory icons, and intuitive programming, operators can effortlessly transition between any other Atlas SUNTEST, Xenotest, or Ci Weather-Ometer.
With 15 user-selectable languages, operators in any global lab can walk right up to a SEPAP MHE and begin programming.

The UI is WXView II compatible - Atlas' software for remote access to test data and generating PDF reports as proof of testing.



XenoTouch II

Irradiance Control

The irradiance and Black Standard Temperature (BST) are controlled on-rack by a wireless XENOSENSIV light and BST monitor. This ensures accurate conditions at the sample level.



BST Control on Sample Rack, Integrated Specimen Spray System

Temperature Control

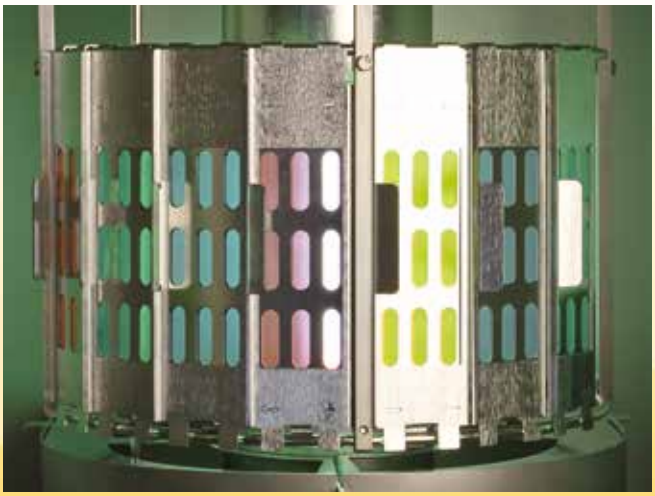
Temperature has a significant impact on the degradation rate of polymers. The SEPAP MHE chambers control BST on sample surface level precisely and within very narrow tolerances. All SEPAP MHE instruments control both BST and CAT simultaneously to achieve ideal test conditions.

Humidity Control SEPAP MHE+

The SEPAP MHE+ humidifiers are optimized to reduce water consumption while guaranteeing the highest uniformity.
To enable continuous operation, the humidity/spray is linked to an integrated 60 liter water reservoir.

Specimen Spray SEPAP MHE+

To simulate the effects of water, the SEPAP MHE+ is equipped with a specimen spray system.



SEPAP MHE Specimen Rack

ATLAS MATERIAL TESTING SOLUTIONS / AMETEK®

Atlas offers more than testing instruments. From technical advice to final test method implementation, Atlas provides the support that you need when determining the right weathering testing solution for your products. For more information, please contact your local Atlas sales office or visit us at **www.atlas-mts.com**.

Technical Data SEPAP MHE

	MHE	MHE+
Mercury vapor lamp	1000 W	1000 W
Specimen rack capacity	1040 cm²	1040 cm²
Specimen holders	15	15
Specimen holder size	14.5 x 4.8 cm	14.5 x 4.8 cm
Test positions for foils (1.2 x 4.0 cm)	135	135
Light monitor (on-rack)	XENOSENSIV®	XENOSENSIV®
Irradiance range (290-420 nm)	90-300 W/m²	90-300 W/m²
BST range*	20-100 °C	20-100 °C
CAT range*	20-70 °C	20-70 °C
Simultaneous BST+CAT control	automatic	automatic
Humidity range*	–	10-95 %
Specimen spray	–	●
Integrated water reservoir	–	60 litre
Touch screen control panel	●	●
Setpoint monitoring	●	●
Memory card interface	●	●
Ethernet interface + add-ons	●	●
WXView II compatible	●	●

Physical and Electrical Data

	MHE / MHE+
Width x Depth x Height	90 x 78 x 180 cm
Weight	290 kg
Electrical	230 V ±10%, 50/60 Hz
Maximum power consumption	approx. 2.8 kVA
Amperage	12 A

* Ranges depending on laboratory ambient conditions and instrument parameter set points.
● Standard

Ask for AMECARE Maintenance Packages

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