

UTM Tensile Compression
Bending MFI IZOD Impact ESCR
HDT/VICAT UL 94 Flammability
Density Balance PEEL-BOND COF
Heat Sealer Falling Dart Impact
OPACITY HAZE colour Tear
MOISTURE GSM Balance
Thickness HOT TACK WVTR OTR
Leak Balloon BURST Bursting
Strength CORE STRENGTH
●IT Hydrostatic Pressure
THERMO-CYCLING Pipe Burst
SCG Notch Cutter Milling Torque
force gauge dosing system
profile control IBC Control
LAYFLAT CONTROL *thickness scanner*
chillers Calibration cage screen changer
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Product Guide

FILMS & PACKAGING TESTING



www.hemtech.in

HEM TECHSYS PRIVATE LIMITED

Popularly known as **HEMTECH**

About us

HEMTECH is a company established and run by Technocrats. **HEMTECH** is focussed in the field of Testing Instruments and Automation Systems for Polymer, Films & Laminates, Packaging, Pharma Packaging, Polymer Pipes, Textiles & Technical Textiles, Automotive Industries. **HEMTECH** works very closely with all reputed Institutes and Industries in the field and so have good exposure and experience in the respective fields.

HEMTECH is Committed to bring to you world's best and latest technology Instruments as Authorised Agent for world renowned companies in their respective fields. **HEMTECH** also expanded activities by also establishing local manufacturing facility with near Imported Quality Value for Money Instruments for the Quality Conscious Indian and foreign customer. Thus **HEMTECH** has unique balance of world class imported Instruments and near Imported Quality best in class locally manufactured Instruments under the registered trademark brand of **HEMTECH**.

Team

HEMTECH is a young and Dynamic team of

- **Electronics Engineers**
- **Mechanical Engineers**
- **Software Development Engineers.**
- **Instrumentation Engineers**
- **Electrical Engineers**

Positive Attitude, Hard Work, Sincerity, Honesty and Team work is the core strength of the team HEMTECH.

Service

HEMTECH believes in COMPLETE services. Our team believes that Service starts even before selling the Instrument or System. At HEMTECH Services are package of



Pre-Sales



**Installation
&
Commissioning**



**Repairs
&
Maintenance**



**Training
&
Tech Support**



Calibration



**Retrofit
&
Computerisation**

Divisions

We at HEMTECH believe that better focus gives better results. Hence, we have divided our company operation in divisions.

- **Sales Division** – Pre-Sales Service, Sales, Application Support, Liaison...
- **Service Division** – Installation & Commissioning, Training, Repairs & Maintenance, Technical Support, Calibration...
- **D & D Division** – Design, Development of Instruments, Electronics, software, Retrofits...
- **Manufacturing Division** – Manufacturing of Instruments, Accessories, SPM...
- **Testing Division** – Testing Facility for Industries on Commercial bases...

Achievements

- ✓ National Award for Innovation in Technology - by Ministry of Chemical & Fertilisers 2011
- ✓ National Award for Innovation in Technology - by Ministry of Chemical & Fertilisers 2012
- ✓ Development of Instrument for Mozzarella Cheese Testing for Anand Agriculture University
- ✓ Development of Retrofit kit for Imported HOT TACK TESTER



Film & Laminates Testing Instruments

Tensile Tester

Microcontroller based
LCD Display & Keypad
Micro-stepping / Servo
Drives
High Data Rate
Built in RS 232 Interface

Self Identification Loadcell
Accurate Force

hemWIZARD +
WINDOWS based Software for Control
& Data Acquisition



Peel-Bond Tester

Microcontroller based
LCD Display & Keypad
Micro-stepping / Servo Drives
High Data Rate
Built in RS 232 Interface

Self Identification Loadcell
Accurate Force Measurement.
Wide Speed Range

hemWIZARD+
WINDOWS based Software for Control &
Data Acquisition



Friction Tester COF

Microcontroller based
LCD Display & Keypad
Micro-stepping / Servo
Drives
High Data Rate
Built in RS 232 Interface



hemWIZARD+
WINDOWS based Software for
Control & Data Acquisition

Heat Sealers

Microcontroller based
LCD Display & Keypad

True Pressure Measurement
Accurate Dwell time
Excellent Temperature Control



**Pressure Pulse based
Dwell time Auto
Tuning & Control**

Balloon Burst Tester

Meets ASTM
Digital
Peak Hold

Restraining Plates



Tear Tester

Elmendorf type

Digital



Stiffness Tester

Digital
Version



Falling Dart Impact Tester

Method A
Method B

Built In Vacuum
Pump
Pneumatic
Clamp
assistance

Automatic Dart
Release system



Thickness Tester

Hand Held Model



Desktop Model

0.1 Micron
1 micron



Moisture Balance

Halogen heating
Accurate
Repeatable

**Models up to
Resolution
0.001% available**



GLOSS Meter



Tri-angle
(20,45 & 80 deg)

OPTICAL DENSITY



0 to 5.00 D
Accuracy : $\pm 0.02D$

HAZE METER



Measures TRANSMITTANCE & HAZE
Confirms to Standard **ASTM D 1003**
Integrating Sphere Sensor

Ancillaries for Paper, Corrugated Sheet Testing Instruments



Bursting Strength Tester

Digital
Manual clamping

Optional Pneumatic clamping



90 Degree Peel Tester

Digital
Keeps Peel Angle Constant
at 90 deg



Core Strength Tester

Digital
Paper Core

Optional
Fixtures for
various sizes.



180 Degree Peel Tester

Digital
Keeps Peel Angle Constant at
180 deg



BOX Compression Tester

Digital
Pneumatically
Operated
Accurate Force
Measuring
system

Different Models
as per Platform
size available.



Loop Tack Tester

Digital
For testing Adhesive
Tapes



Shear Adhesion Tester

**2 stations to 30
stations models**

Digital Timer
Battery Operated
Auto Hold
Test end sensing



Bottle Compression tester

For Top Load Test



**Dynamic
Shear Adhesion Tester**

Package Testing Instruments

Automated Package Tester

Suitable for performing

Seal Strength Test

(Burst, Creep, Creep-to-Failure)
Porous & Non-Porous
Flexible Packages

Leak Integrity Test

Leak Test for
Non-Porous Flexible Packages

LEAK & LEAK / FLOW TESTERS

USA

**Pressure
or
Vacuum Decay
Models**

Suitable for performing

- ✓ Leak Test
- ✓ Leak / Flow Test
- ✓ Leak / Occlusion Test

NON DESTRUCTIVE LEAK TESTERS

Pressure or Vacuum Decay

Suitable for performing

- ✓ Induction sealed Bottles
- ✓ Blister Packs
- ✓ Vials
- ✓ Medical Devices



LEAK & BURST Tester



Suitable for performing WET & DRY Leak Test

- ✓ Snack pouches
- ✓ Food Pouches
- ✓ Bags



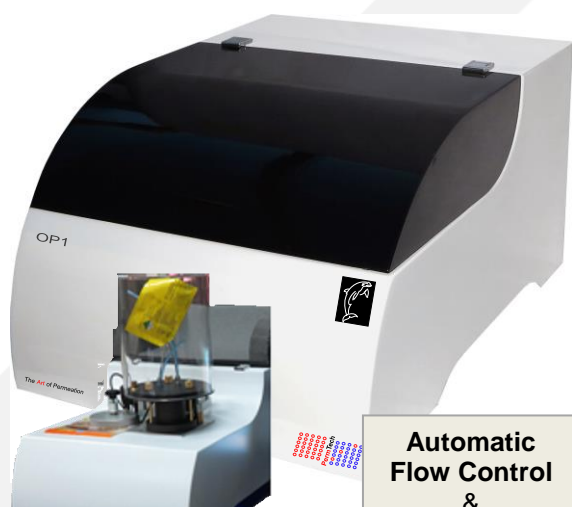
Large size Desiccator



Standard
Desiccator



Permeability Testers For Films & Packages



Automatic
Flow Control
&
Pressure
Compensatio

Meets Latest Standards

WVTR : ASTM F 1249
OTR: ASTM D 3985,
F 2622
CO2TR : ASTM F2476



Measuring Range

Test Range H₂O
0.002-100 g.m⁻².24h⁻¹.bar⁻¹ (unmasked)
0.04-2000 g.m⁻².24h⁻¹.bar⁻¹ (masked)

Test Range O₂
0.01-15000 cm³.m⁻².24h⁻¹.bar⁻¹ (unmasked)
0.2-80000 cm³.m⁻².24h⁻¹.bar⁻¹ (masked)

Test Range CO₂
0.25-18000 cm³.m⁻².24h⁻¹.bar⁻¹ (unmasked)
20-360000 cm³.m⁻².24h⁻¹.bar⁻¹ (masked)

Product Range :

WOCP1

3 in 1 Instrument

Only of its kind in World Market

WOP1 & WOP2

2 in 1 Instrument

Only of its kind in World Market

OP2+

Both side RH Control

Only of its kind in World Market

WP1 & WP2

Water Vapour Transmission Rate - WVTR

OP1 & OP2

Oxygen Transmission Rate - OTR

CP1 & CP2

Carbon Dioxide Transmission Rate – CO₂TR

OP1E - Economical

Oxygen Transmission Rate - OTR

CARBP1

for Carbonated Beverage Bottles
Carbon Dioxide Transmission Rate
CO₂TR

***Gives result in an Hour
which normally takes weeks !!!***

- ✓ Fully Computer Controlled
- ✓ Single Cell or Two Cell Models
- ✓ Temperature Control 10 – 50 °C (+/- 0.1 °C)
- ✓ Humidity Control from 5 to 95% (+/- 1.5%)
- ✓ 100% Humidity Mode
- ✓ 0% Humidity Mode (for O₂ & CO₂)

- ✓ Allows sample thickness up to 2.5 mm
- ✓ Automatic Flow Control (10 – 75 ml/min)
- ✓ Unique Closure System—No need to cut samples !
- ✓ Data storage & Graph Storage for viewing later on
- ✓ LABVIEW based latest Software
- ✓ Latest USB Interface !



HOT TACK TESTER



NEW

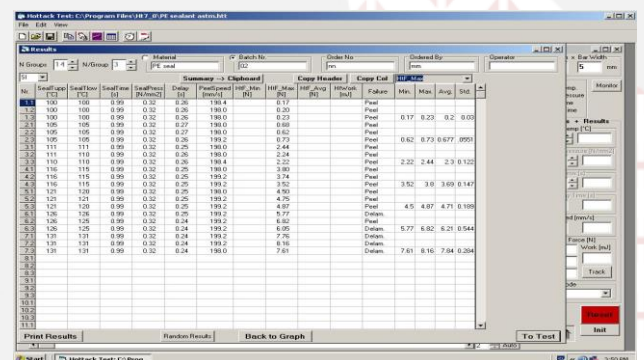
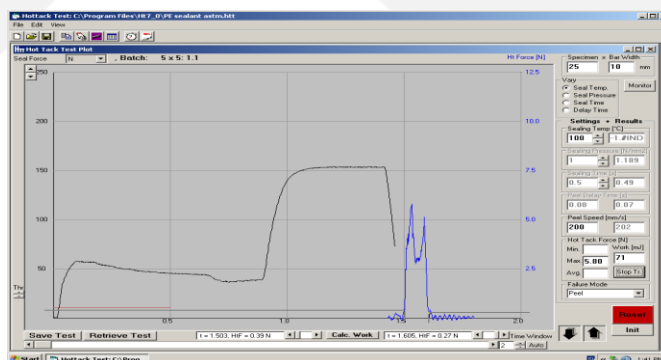
What is NEW !!!

- ✓ USB interface
- ✓ Windows 7 Operating system (Option for Win8 is available)
- ✓ Test software Wintack ver. 11
- ✓ Indication of Actual Sealing Temperature on the Instrument.
- ✓ Improved Hardware

Auto -Digital Pressure Regulation

Controls

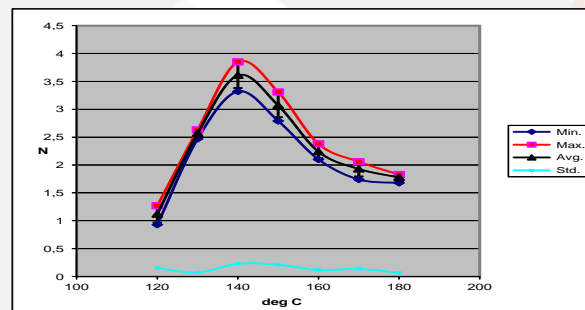
Sealing Temperature
Sealing Pressure
Dwell Time
Delay Time



Material:	TP	SealTemp:	Vary	7 Groups: 4 pcs/group
Batch Nr:	AMC41109	Seal Time:	0.5	
Operator:	nn	Seal Press:	0.5	
Created:	2002-06-06	Delay time:	0.20	
		PeelSpeed:	200	

SealTemp	Min.	HtF_Max	Avg.	Std.
120	0.93	1.27	1.12	0.15
130	2.47	2.63	2.57	0.0735
140	3.32	3.85	3.61	0.228
150	2.79	3.31	3.07	0.214
160	2.1	2.38	2.24	0.118
170	1.74	2.06	1.93	0.136
180	1.68	1.83	1.78	0.0678

spec. width 25 mm



TORQUE TESTER

Manual torque Tester



Micro-controller based Digital
Operating Console with Key pad & LCD
Calibration facility

Motorised Torque Tester

- ✓ Compact Size
- ✓ Constant Speed Drive
- ✓ LCD Display & KEYPAD
- ✓ Calibratable in the Field
- ✓ Wide Operating Temperature Range
- ✓ Non-destructive Testing
- ✓ RS-232 Port



Our Extended Family (Partial List of Valued Customers)

AMCOR
APPL
ADRDE
ASHIRVAD PIPES
ASTRAL
AXEL POLYMERS
BALAJI WAFERS
BENTLAY FITTINGS
BHANSALI ENGINEERING
C K ZIPPERS
CAPITOL FIBRES
CAPRI COATINGS
CAVIN KARE
CHIRIPAL FILMS
CIPET
CLARIENT
CONSTANTIA
DRDE
EASTER
ECOPLAST
EPC
GABA

GAIL
GHODAVAT FOOD
GLENMARK
HOLISTER
HUTAMAKI
IDEX
IDMC
IISC
IOCL
INJECTOPLAST
ION EXCHANGE
IPR
ITC
JESONS
KALPENA
INDUSTRIES
KJR FILMS
LARPM
LAXMI SNACKS
LOHIA
M C COLLEGE
M J BIOPHARMA

MANTRA
MARVEL
MEHATA FLEX
MERIL ENDOSURGERY
MONTAGE GLOBAL
MULTIFLEX
MULTI FILMS
NAVAMI
NAVRANG POLY FILMS
ORIFLAME
OSWAL EXTRUSIONS
PACKAGING INDIA
PAPER PRODUCTS
LIMITED
PARIKH PACKAGING
PARLE
PARRY
PLATICHEMIX
POSITIVE PACKAGING
RAJASHREE POLYPACK
REAL NAMKEEN
RELIANCE INDUSTRIES

SAFAL
SEKHANI
SHAILLY ENGINEERING
SHANKAR PACKAGIN
SHEFIELD POLYMERS
SHIVA TEX
SHRINATH ROTO PACK
SHUBHAM EXTRUSION
SIDMAK LABORATORIES
SPOT ON COATINGS
STRONG STRAPS
SUNPHARMA
SUPREME
SWAPNIL AGRO
SWISS PACK
THIAGRAJA UNIVEERSITY
TUFLEX
UFLEX
ULTIMATE FLEXIBLES
VIKAS GLOBAL
WIRE & FABRIK
YESH LAMI PRINT

International Customers

J F Packaging – Srilanka
F I P C O – Oman
Sun Pharma De Mexico - Mexico



"Total Customer Satisfaction Through Quality Services"



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HEMTECH follows the policy of continuous improvement and reserves the rights to change the specifications, color & look without notice.