

HNR-400A/400B Melt Flow Indexer



Which products to test



Glass fiber plastic



Polypropylene



Polycarbonate



Polyethylene



Nylon



Teflon



PVC



ABS

1. Product introduction:

This series high-precision melt flow rate instrument tester, used for testing all kinds of plastic, resin in the state of viscous flow through a certain temperature and load, every 10 min module and melt flow rate through the standard port MFR/MVR value, it is suitable for high temperature of polycarbonate, aromatic sulfone, fluorine plastics, nylon engineering plastics, can also be applied to polyethylene (PE), polystyrene (PS), polypropylene (PP), ABS resin, polyformaldehyde (POM), polycarbonate (PC) resin with lower melting temperature, such as plastic test, widely used in plastic production, plastic products, petrochemical industry and related colleges and universities.

2. Test standard:

GB/T3682-2000 "Determination of Thermoplastic Melt Flow Rate and Melt Volume Flow Rate"

ISO 1133: 1997 "Determination of Thermoplastic Melt Mass Flow Rate MFR and Melt Volume Flow Rate MVR"

ASTM D1238 "Standard Test Method for Measuring Thermoplastic Melt Flow Rate by Extrusion Plastometer"

3. Test method:

HNR-400A Quality method (MFR)

HNR-400B Quality method, volume method (MFR, MVR)

4. Display mode

Color LCD screen

5. Technical parameters:

Squeeze out some material	
Discharge port diameter	$\Phi 2.095 \pm 0.005 \text{mm}$
Discharge port length	$8.000 \pm 0.025 \text{mm}$
Loaded barrel diameter	$\Phi 9.550 \pm 0.025 \text{mm}$
Loaded barrel length	$152 \pm 0.1 \text{mm}$
Piston head diameter	$9.475 \pm 0.015 \text{mm}$
Piston head length	$6.350 \pm 0.100 \text{mm}$
Standard test load (eight grades)	
1grade	$0.325 \text{kg} = (\text{rod} + \text{weight} + \text{thermal units} + 1 \text{ No. tray body weight})$
2grade	$1.200 \text{kg} = (0.325 + 2 \times 0.875 \text{ weight})$
3grade	$2.160 \text{kg} = (0.325 + 3 \times 1.835 \text{ weight})$
4grade	$3.800 \text{kg} = (0.325 + 4 \times 3.475 \text{ weight})$
5grade	$5.000 \text{kg} = (0.325 + 5 \times 4.675 \text{ weight})$
6grade	$10.000 \text{kg} = (0.325 + 5 \times 4.675 \text{ weight} + 6 \times 5.000 \text{ weight})$

7grade	12.500kg=(0.325+5 4.675 weight+6 5.000+7 2.500 weight)	
8grade	21.600 kg=(0.325+2 0.875+3 1.835+4 3.475+5 4.675+6 5.000+7 2.500+8 2.915 weight)	
	Relative error of Load Test≤0.5%	
Test method	HNR-400A	Quality Act (MFR)
	HNR-400B	Quality Act,volume method (MFR, MVR)
Temperature range	Room temperature—450℃	
Temperature accuracy	±0.2℃	
Temperature resolution	0.1℃	
Timing range	0.1—999 seconds	
Timing Accuracy	0.1 seconds	
Material cutting method	Automatic or manual way of cutting material	
Display	LCD screen	
Print	Equipped with a printer, can print test report	
Working conditions	Ambient temperature10℃—40℃; Relative humidity30%—80%	
Dimensions	250×350×510(L × W × H)	



01

Various standard interfaces

Standard interface settings, safe use of electricity with confidence

02

Mini printer



03

Automatic temperature control system

Double temperature control system, temperature control is more precise, heating efficiency is higher



Data Memory Function

The last test condition can be displayed on the boot, no need set again.



About Us

HST Group. is specialized in developing and manufacturing testing equipments for metal ,non-metal and composite materials with all kinds of testing standards of GB,ISO,ASTM,BS, EN etc.

Our main products contains the followings with CE and ISO certifications:

Tensile Testing Machine, Electronic Universal Testing Machine, Hydraulic Universal Testing Machine, Impact Testing Machine, Compression Testing Machine, Torsion Testing Machine, etc.

With modernized standard workshops and advanced production tools and machinery, we have strong ability to research and develop new production independently. With enough technical engineers , skilled workers and after-sale services team , we are able to supply best test solutions ,machines and services.

We sincerely welcome customers from home and abroad to visit us, let's make progress together and reach win-win cooperation!





Processing Centres

Customer feedback



Attend exhibitions regularly and provide training for local customers



Our Customer

Latin America	North America
(Mexico) Industria Lt	Tungsten Heavy Powder & Parts
SIMIL CUERO PLYMOUTH SA DE CV	PCMI Manufacturing Group
Dirceu Gomes	Lightning Rod & Pipe LLC
Núcleo Empresarial Huechuraba	CellScale Biomaterials Testing
Facultad de Ciencias Químicas (FCQ)	LES OUTILS DIAMANTÉS DTG, INC.
Casagrande Motori Ltda	COO A.L. Patterson Inc.
Engº Douglas Köech Branco	Consultant to Lightning Rod & Wire LRP, LLC
Oceania	Middle East
ACME Operations Pty Ltd	African Industries Group
Pultron Composites Ltd	RTC TEC Couplings Technology
Fulcrum SP Materials Ltd.	Hayat Communications
A K UNICARGO INTERNATIONAL PTY LTD	Team General Trading LLC
Coogee Titanium Pty Ltd.	Ahmed alsarraj sons company
Long Pipes Pty Ltd	TARKHIS KARANE NOANDISH
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Osho Tools Pvt. Ltd.	Estonia Logistics Ltd.
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Yudi EKo Subiyanto	ООО "Уфагидромаш"
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360-degree VR display of the factory