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Product Name :

Melt Flow Index Tester

Product Code :

SLE/ET/01



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Description :

Melt Flow Index Tester (Product Code: SLE/ET/01) is a plastics testing instrument used to measure how easily a molten thermoplastic flows through a die under a set load and temperature, a routine check in polymer engineering labs and quality-control rooms. It uses a microprocessor-based, auto-tuned PID temperature controller with 0.1 °C resolution, weights of 2.16 kg and 5 kg, and a digital presettable timer up to 999 seconds. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, and supplied to buyers of engineering lab equipment in India and abroad.

Specifications

Parameter	Detail
Temperature (as listed)	Ambient: 400 °C
Temperature control	Microprocessor-based, auto-tuned PID controller with temperature range
Resolution	0.1 °C
Accuracy	± 0.1 °C
Weights	2.16 kg and 5 kg
Sample cutting	Manual
Timer	Digital, presettable, range up to 999 seconds, with buzzer output
Power	230 V, 50 Hz, single phase
Product code	SLE/ET/01
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Melt Flow Index Tester Used For?

The melt flow index expresses how much molten polymer is pushed through a standard die in a fixed time. Granules are loaded into the heated barrel, allowed to melt at the set temperature, and a weighted piston drives the melt out through the die. The operator cuts the extrudate at timed intervals, weighs the pieces and works out the flow rate. A higher value means an easier-flowing, usually lower-viscosity grade.

Plastics processors use the test to check incoming raw material batches, confirm a grade before moulding or extrusion, and spot degradation in recycled material, while engineering colleges and polytechnics use it to teach polymer processing. The digital timer's buzzer signals each manual cut, and the two weights let the lab test under a lighter or heavier load as its method requires. Let the temperature settle before loading, clean the barrel and die while still hot, and wear heat-resistant gloves.

What to Specify When Ordering