

Plastic Film/Sheet Falling Dart Impact Tester

Model : SRLB

Summary :

Falling dart impact tester, also known as film falling dart impact tester. The equipment is suitable for the determination of impact mass and energy of plastic film or thin film under the impact of free falling darts at a given height when 50% samples are damaged.

The impact resistance performance test can prevent the damage of the packaging surface due to impact and drop due to insufficient toughness of packaging materials, and effectively avoid the damage caused by impact or drop in the circulation.



Test principle:

Trial begins, the first choice experiment method, the initial quality and Δm value, a test, if the first sample damaged, with Jordan farmer Δm reduce fall quality; If the first sample is not broken, quality must be used farmer Δm increase fall in this experiment. In conclusion, the use of weights to reduce or increase the falling mass depends on whether the previous sample is damaged. After 20 samples are tested, the total number of damages N is calculated. If N is equal to 10, the test is completed. If N is less than 10, after supplementing the sample, continue the test until N is equal to 10; If N is greater than 10, after the sample is replenished, continue the test until the total number of damage is equal to 10. Finally, the impact result is calculated automatically by the system.

Application:

Basic application	Film /sheet test	It is suitable for testing the impact resistance of plastic film, thin film and composite film with thickness less than 1mm. Such as PE cling film, wrapped film, PET sheet, a variety of structure of food packaging bags, heavy packaging bags
	Aluminum foil, aluminum - plastic composite film test	It is suitable for testing the impact resistance of aluminum foil and aluminum-plastic composite film
	Paper/ cardboard	It is suitable for testing the impact resistance of paper and paperboard
Extended application	Drop ball impact test	It is used for testing the impact resistance of falling ball of the sample. The sample is clamped on the fixture of falling ball impact test. The falling ball of a certain mass is selected to impact the sample from a certain height, check the damage of the sample, and judge the impact resistance of the sample
	Shoulder lining impact test	For the impact test of falling darts of shoulder lining, the sample of shoulder lining is placed on the special test fixture, and a certain quality of dart head is selected to impact the sample of shoulder lining from a certain height. According to the damage of the sample, the impact resistance of the sample is judged.

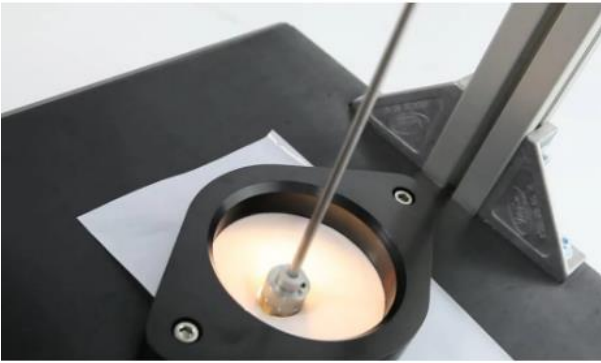
Meet test standards :

ASTM D1709, ISO 7765-1-1988, JIS K7124-1, GB/T 9639.1-2008 and etc.

Technical Specification :

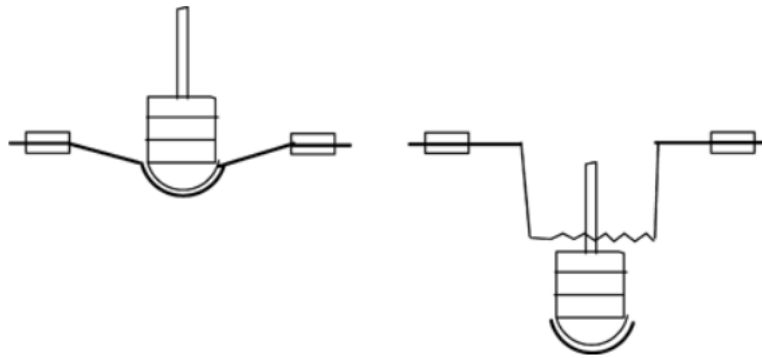
Test method	Method A	Method B
Test weight arrange	50~2000g	300~2000g
Drop height	0.66 ± 0.01m	1.50 ± 0.01m
Machine size	500×450×1320mm (L×W×H)	500×450×2160mm (L×W×H)
Test accuracy	0.1g (0.1J)	
Sample fixed way	Pneumatic compression fixed	
Air pressure	0.6mpa (air source supplied by user)	
Air interface	Φ8mm polyurethane tube	
Sample size	The size should be bigger more than 150mm×150mm	
Machine weight	About 70KG	
Power supply	AC 220V 50Hz	

Real imagines :



Easy Operation

Pneumatic clamping, 2 starting models--manual and pedal switch and built-in observation light



Weights can be chosen:
Method A : 50~2000g
Method B : 300~2000G



2 colors can be chosen

Model : SRLB-A
Digital LCD display, buttons operate

Model : SRLB-B
Touch screen display, screenoperate



