

IK RATING (IMPACT RESISTANCE)



IK ratings help to classify products by its resistance to impacts by Kinetic energy, while EN 62262 specifies the way enclosures should be mounted when tests are carried out, the atmospheric conditions that should prevail, the number of impacts (5) and their (even) distribution, and the size, style, material, dimensions etc. of the various types of hammer designed to produce the energy levels required. IK10+ and IK10++ are outside the scope of EN 62262

IK code and impact energy (values changed in Amd 1:1998)

IK code	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10	IK10+	IK10++
Impact energy (joule)	*	0.14	0.2	0.35	0.5	0.7	1	2	5	10	20	>20 to 60	>60 to 120

Impact test characteristics

IK code	IK00	IK01 to IK05	IK06	IK07	IK08	IK09	IK10	IK10+	IK10++
Impact energy (joules)	*	<1	1	2	5	10	20	>20 to 60	>60 to 120
R mm (radius of striking element)	*	10	10	25	25	50	50	50	50
Material	*	polyamide ¹	polyamide ¹	steel ²	steel ²	steel ²	steel ²	steel ²	steel ²
Mass kg	*	0.2	0.5	0.5	1.7	5	5	5	5
Free fall height m	*	*	*	0.40	0.30	0.20	0.40	>0.40 to 1.2	>1.2 to 2.4
Pendulum hammer	*	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Spring hammer	*	Yes	Yes	Yes	No	No	No	No	No
Free fall hammer	*	No	No	Yes	Yes	Yes	Yes	Yes	Yes

* not protected according to the standard

1. HR 100 Rockwell hardness according to ISO 2039/2

2. Fe 490-2 according to ISO 1052, Rockwell hardness HR 50 to HR 58 according to ISO 6508