

IEC 61112
1000V



MADE IN GERMANY

certified according
IEC 61112: 2009

SHEETING:

A-KX 55-15

Insulating Blanket

Cooper Standard Technical Rubber is a part of the business unit of the Cooper Standard Group that serves markets outside of the core automotive business.

Based on decades of experience, Cooper Standard Technical Rubber is regarded as a specialist in developing and producing rubber compounds and elastomer sheets.

Our customer base includes customers in the machinery and plant engineering, automobile and commercial vehicles industries, as well as those in pharmaceuticals and medical technology, the building industry and civil aviation.

A-KX 55-15 fulfills IEC 61112:2009

The European Standard IEC 61112: 2009 governs the properties of insulating blankets approved for operation under a voltage.



The standard DIN VDE 0680 Part 1 was superseded by the European Standard IEC 61112 in March 2010. The change to a European standard also increased the requirements applying to insulating blankets, which the previous EPDM (ethylene-propylene diene monomer) grade A-KX 50-10 was no longer able to fulfil.

Therefore, Cooper Standard Technical Rubber developed an EPDM grade designated as A-KX 55-15, which meets both the increased requirements applying to buckling, voltage and perforation strength as well as the “special properties” of acid and ozone resistance certified according to the specification. Another characteristic feature of A-KX 55-15 is its increased flame-retardant property. Of course, this grade is also nitrosamine-free and free from PAHs (polycyclic aromatic hydrocarbons) in accordance with EU Regulation 1272/2013, and conforms to the latest SVHC (Substances of Very High Concern) list of the REACH Regulation, because it is manufactured free from antimony trioxide and halogenated flame retardants.

The A-KX 55-15 grade is certified in two different thicknesses (1.0 and 1.6 mm), and thus carries the VDE (Association for Electrical, Electronic & Information Technologies) seal and the GS (Tested Safety) mark.

A-KX 55-15



Development
and Production
in Germany

CHARACTERISTICS AND FEATURES

- EPDM quality
- sulfur cured
- insulating blanket
- VDE certificated according DIN EN 61112 cat. A, Z
- ozone and sulfur acid resistant
- PAH content according AfPS GS 2014: category 1

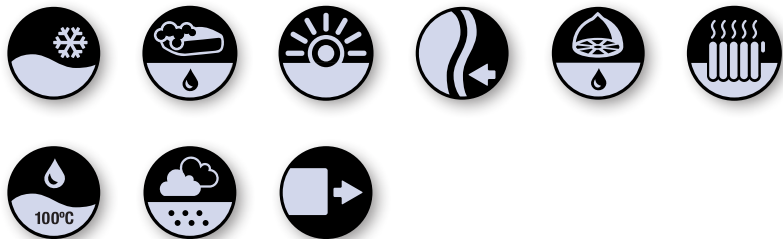
TECHNICAL DATA SHEET

Polymer		DIN ISO 1629	EPDM
Colour			salmon pink (RAL 3022)
Shore hardness	[ShA]	ISO 7619-1 / 3s	60 +/- 5
Density	[g/cm ³]	DIN EN ISO 1183 / ISO 2781	1,18 +/- 0,02
Tensile strength	[N/mm ²]	ISO 37	> 12
Elongation at break	[%]	ISO 37	> 300
Temperature resistance	[°C]		-50°C bis +100°C
Tear strength	[N/mm]	DIN ISO 34-1 A	> 7,0
Compression set *	[%]	ISO 815	< 35
Fire resistance **		FMVSS 302	B (hardly inflammable)
Ozone resistance ***		ISO 1431-1	ozone resistant
Spec. volume resistance	[Ωcm]	VDE 0303-30	isolating

* 24 h / 70 °C, ** tested at 2 mm, *** 50 pphm, 40°C, 72 h, 20% Elongation

RESISTANCES AND CHARACTERISTICS

- Low-temperature flexibility
- Alkali resistance
- UV-resistance
- Rebound resilience
- Acid resistance
- Heat resistance
- Water up to 100 degrees
- Weather & ozone
- Tensile strength



Sheeting

Our Sheeting Division offers you an extensive product spectrum of sheets and press plates made from all common elastomers in a hardness range from 25°-90° Shore A and material thicknesses of 0.5 mm – 60.0 mm.

A variety of approvals, including those in accordance with the Elastomer Guideline, VDE or automotive standards, show the high quality of our materials.

Highly specialised products for all conceivable uses are our strength. Together with our experienced team, we will also find a solution to match your particular application.



**Cooper Standard
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