

IEC 61111
1000V



MADE IN GERMANY

certified according
IEC 61111: 2009

SHEETING:

A-ZU 65-84

Insulating Mat

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-ZU 65-84 fulfills IEC 61111:2009

The properties for insulating mats approved for working subject to voltage were previously governed by the German Standard DIN VDE 0680 Part 1. The Cooper Standard grade A-BY 60-84 still meets the requirements that are imposed.

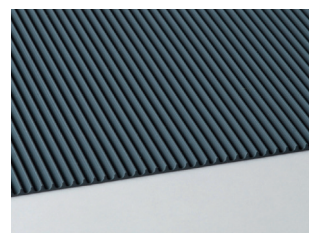


The standard DIN VDE 0680 Part 1 has now been superseded by the European Standard DIN EN 61111. This change to a European standard also increased the requirements applicable to insulating mats, which can no longer be fulfilled by the tried and tested natural rubber grade A-BY 60-84.

Cooper Standard Technical Rubber has therefore developed a new chloroprene grade called A-ZU 65-84, which fully meets both the increased non-slip and perforation strength requirements as well as the newly-included requirements such as oil resistance, sulphuric acid resistance and resistance to cold. The new A-ZU 65-84 also features good ozone resistance and increased flame retardancy.

Of course, this grade is nitrosamine-free and PAH-free according to EU Regulation 1272/2013, and conforms to the latest SVHC list of the REACH Regulation because its manufacture is free from ETU (ethylene-thiourea).

The A-ZU 65-84 grade is available in three different designs (smooth/smooth; mosaic/smooth; grooved/smooth) with the VDE test seal and the GS mark (Class 0).





CHARACTERISTICS AND FEATURES

- Chloroprene quality
- sulfur cured, ETU free according REACH
- certificated isolating mat according DIN EN 61111
- VDE-certificate for class 0; 3; 4 (depends on thickness)
- fulfilled UL 94 V-0 in 2 mm thickness
- oil and sulfur acid resistant

TECHNICAL DATA SHEET

Polymer		DIN ISO 1629	CR
Colour			grey
Shore hardness	[ShA]	ISO 7619-1 / 3s	65 +/- 5
Density	[g/cm³]	DIN EN ISO 1183 / ISO 2781	1,66 +/- 0,02
Tensile strength	[N/mm²]	ISO 37	> 8
Elongation at break	[%]	ISO 37	> 500
Temperature resistance	[°C]		-35°C bis +90°C
Tear strength	[N/mm]	DIN ISO 34-1 A	> 12,0
Compression set *	[%]	ISO 815	< 30
Fire resistance **		FMVSS 302	DNI (nonflammable)
Ozone resistance ***		ISO 1431-1	not 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



- Fire resistance
- Oil resistance
- Acid resistance
- Low-temperature flexibility

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.



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