



Bonded Foam

The bonded PU-foam has excellent mechanical properties. This flexible foam mat with high density and good impact absorbing properties is perfect for gyms floors. These bonded foam materials are also known as impact foam.

Product Characteristics

Raw material

Polyurethane foam granules, glued together with glue made from polyol and MDI. Does not contain formaldehyde. Density from 135 to 300 kg/m³. Tolerance +/- 20%

Temperature

Avoid temperatures below -40° Celsius and above 120° Celsius. At a constant temperature of over 115° Celsius, there is a risk that the material will be slowly degraded.

Effects of heat

Minimal change to properties when exposed to changing temperatures. Heat conductivity is 0.0400 W/mK.

Fire classification

EN ISO 13501-1 Class E

Bonded foam 135 and 195 meet the requirements of fire test FMVSS 302/ISO 3795 & EN ISO 11925-2, Class E (DIN 4102 B2).

Bonded foam 300 meet fire rating FMVSS 302.

Autoignition temperatures are +340° Celsius.

Dimensional stability

Highly elastic and stable.

Physiologically

Neutral – no negative reactions from skin exposure.

Resistance

Tolerates weak acids and alkali solvents. Does not tolerate extended exposure to sunlight (not UV protected).

Water absorption

Approx. 80% of volume.

Product Applications

Great for damping high energy impacts, for example weights dropping on floor in a gym or training facility.

CSR and certificates
Contact Vibratec for more information.

Technical Specifications



BF-technical-specifications

bf-technical-specifications.xlsx

Product types

	density (kg/m ³)	thickness (mm)	length x width (mm)
Bonded Foam 135	135	20	2000×1200
		30	
		60	
Bonded Foam 195	195	20	2000×1200
		30	
		60	
Bonded Foam 300	300	20	2000×1000
		30	
		60	

Downloads



Bonded-Foam-135-
195-300-TDS-
english



Contact information

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