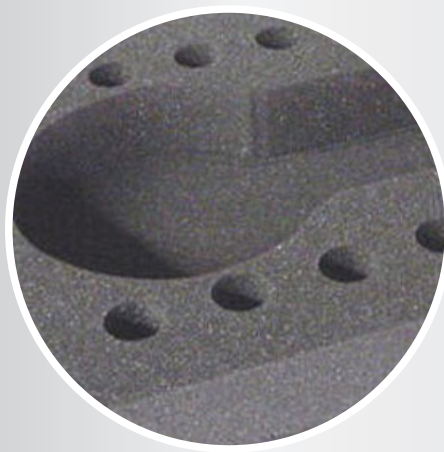
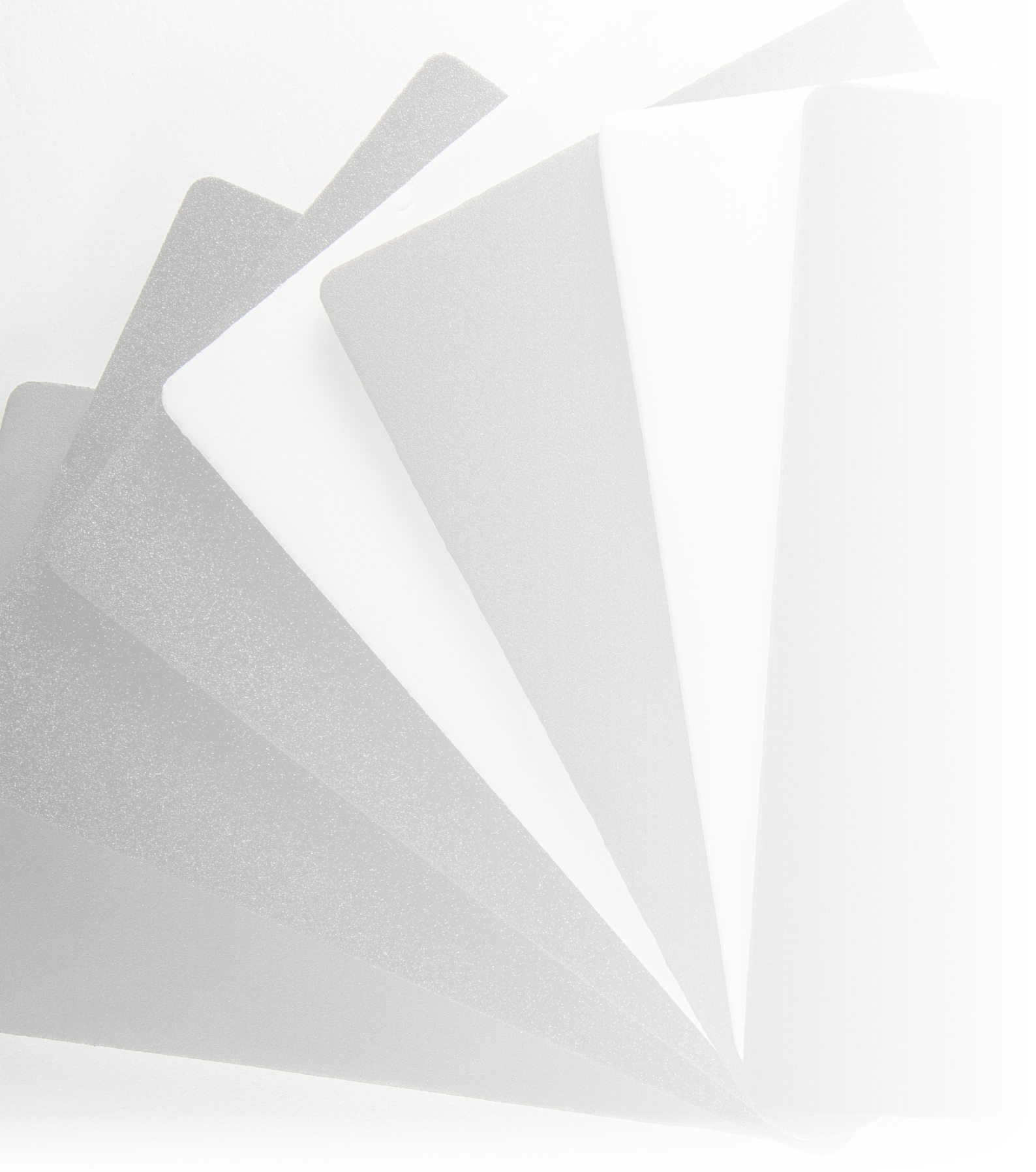


## FOAMS & SOLIDS

- rubber foam
- PVC foam
- polyethylene foam
- polyurethane foam
- EVA foam
- melamine foam
- packaging
- practical examples





**Legal information:**

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**ISO/TS 16949:2009**



# CELLULAR RUBBER

We convert the blocks of EPDM, CR, NBR and NR into sheets, rolls, slit rolls, die-cut or (continuous) kiss-cut forms with or without self-adhesive versions in order to meet the requirements of waterproof sealing, sound and thermal insulation, energy absorbance and resistance to fire.

## Applications

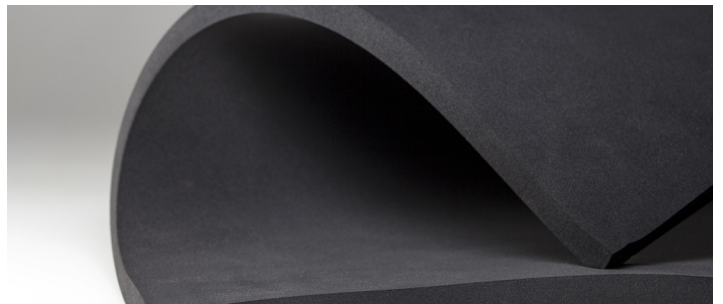
In automotive, white-goods appliances, electronic, aerospace, wind turbine and solar marine, HVAC, construction and building, sports equipment, etc.

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## EPDM FOAM

### 1. Closed cell EPDM foam

- black closed cell EPDM foam
- from 75 kg/m<sup>3</sup> to 175 kg/m<sup>3</sup> density options
- from 10 to 40 Shore 00 hardness options
- from 1 mm to 50 mm thickness options
- very good in UV and solvent-resistant
- meets the **FMVSS 302** automotive standard and conforms to **RoHS 2002/95/EC** directives
- ideal for use in general industrial applications where waterproof sealing, sound and thermal insulation, energy absorbance and resistance to fire are required
- standard colour: black, other colours: beige and grey



### 2. Semi-closed cell EPDM foam

- black semi-closed cell EPDM foam
- 95 kg/m<sup>3</sup> density
- from 3mm to 30mm thickness options
- -40 °C to + 135 °C working temperature range
- after 60-70% compression, sealing against water will be achieved
- excellent properties for sound and vibration damping
- very good in UV and solvent-resistant
- meets the **FMVSS 302** automotive standard and conforms to **RoHS 2002/95/EC** directives
- ideal for use in automotive (sealing of HVAC units, air ducts, glass run channels and dash boards), electronics (sealing of LCD TV, DVD and mobile phone panels) and white goods (sealing of air-conditioning and interior units of refrigerators) industries



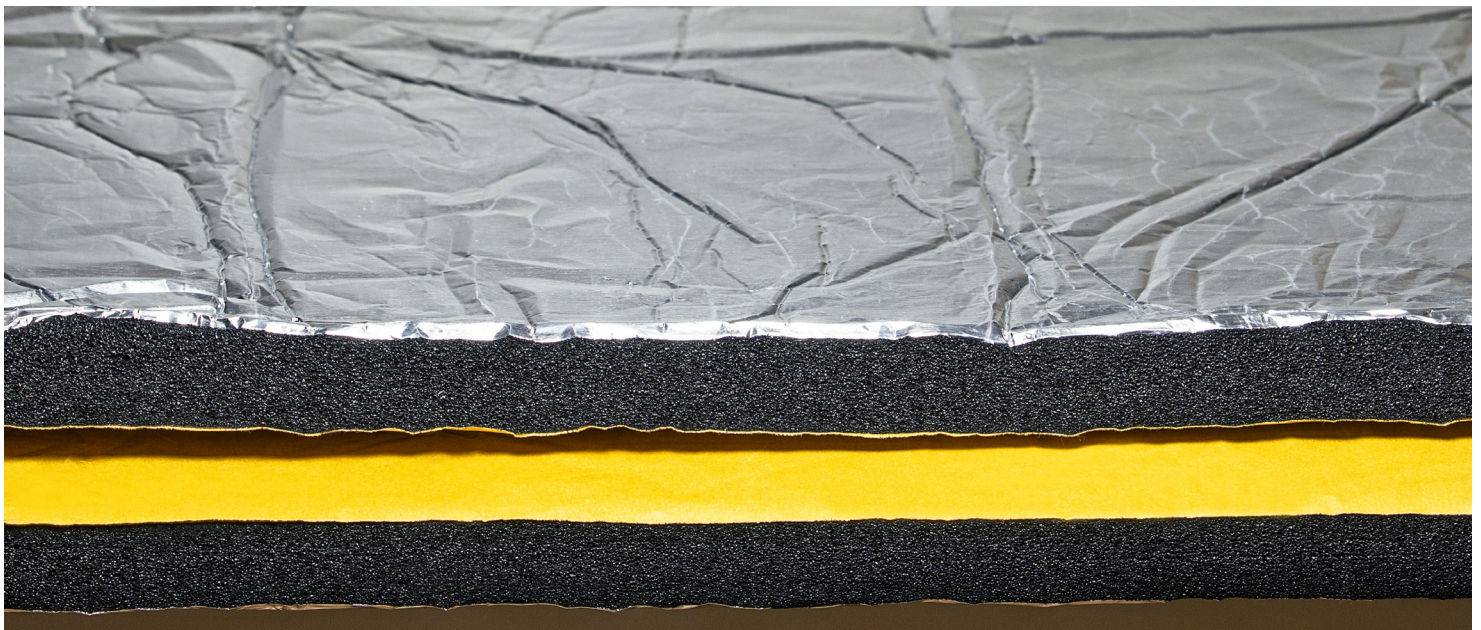
## CR (NEOPRENE) FOAM

- black closed cell chloroprene (CR) foam
- 150-175 kg/m<sup>3</sup> density
- 30-40 Shore 00 hardness
- from 1 mm to 50 mm thickness options
- -40 °C to + 100 °C working temperature range
- no cracking after bending
- very good in UV and solvent-resistant
- meets the **FMVSS 302** automotive standard and conforms to **RoHS 2002/95/EC** directives
- ideal for use in diving suits due to its flexibility and many other applications where absolutely no cracking and no water leakage is required

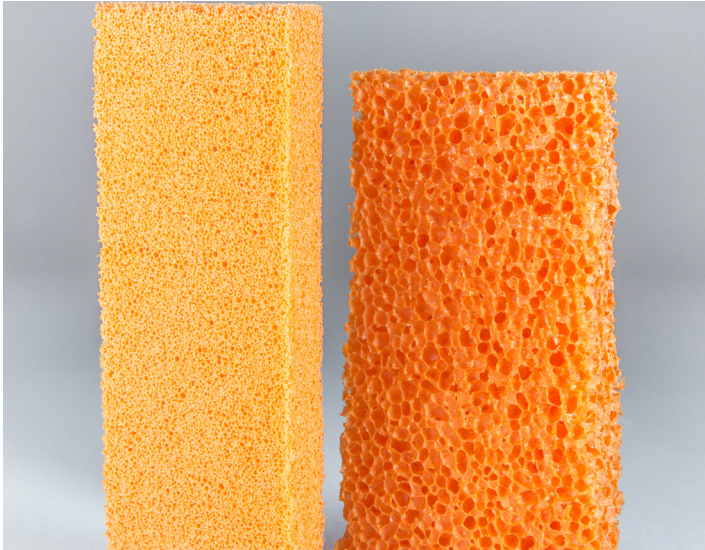


## NBR FOAM

- black closed cell nitrile butadiene rubber (NBR) foam
- 150 kg/m<sup>3</sup> density
- from 1mm to 50mm thickness options
- -40 °C to + 90 °C working temperature range
- very good in UV, oil and solvent-resistantmeets the **FMVSS 302** automotive standard and conforms to **RoHS 2002/95/EC** directives
- ideal for use in thermal, humidity, sound insulation and vibration damping applications







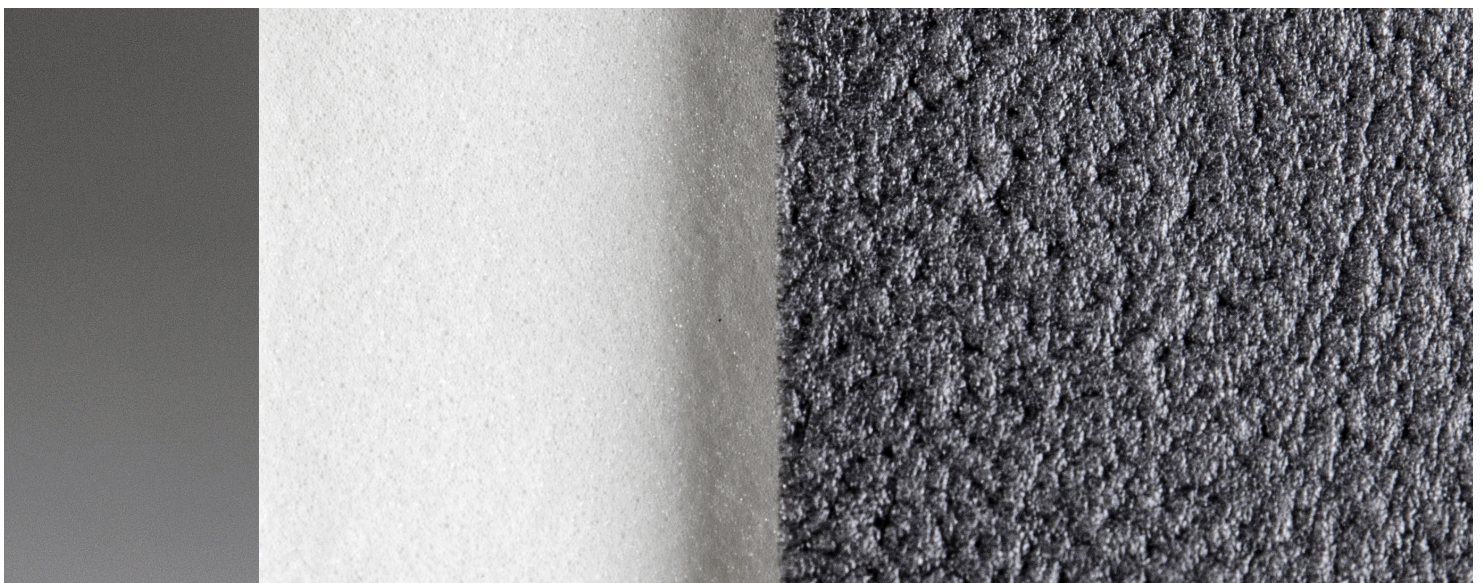
## SPONGE RUBBER

- black open cell natural rubber (NR) foam
- from 160 kg/m<sup>3</sup> to 300 kg/m<sup>3</sup> density options
- -40 °C to + 80 °C working temperature range
- 3 different hardness levels and relative cell size options
- forming in sheets, strips, pipes and balls
- highly elastic and excellent water absorption
- ideal for use in water tanks, cached pads, paint rollers, calenders, etc.

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## PVC FOAM

- black and white closed cell polyvinyl chloride (PVC) foam
- from 125 kg/m<sup>3</sup> to 200 kg/m<sup>3</sup> density options
- from 1 mm to 10 mm thickness alternatives
- -20 °C to + 80 °C working temperature range
- very good solvent resistance
- excellent in anti-condensate and sound insulation
- meets the FMVSS 302 automotive standard and conforms to RoHS 2002/95/EC directives
- due to its slow recovery (SR) and quick recovery (QR) properties, depending on the area of application, it fills the irregular gaps in automotive, white goods, machinery, shoe and many other industries

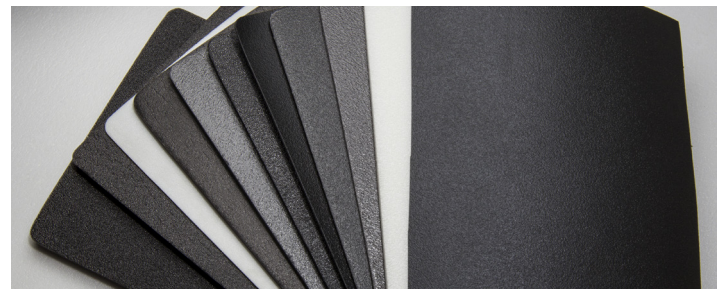
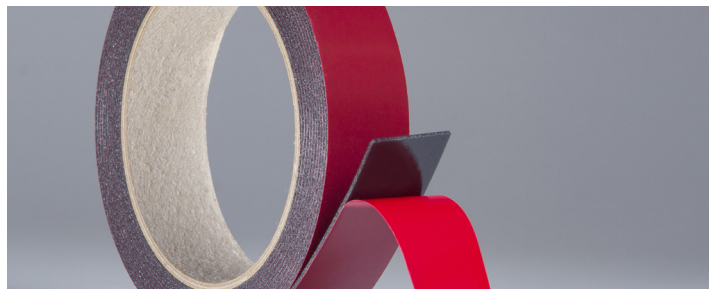
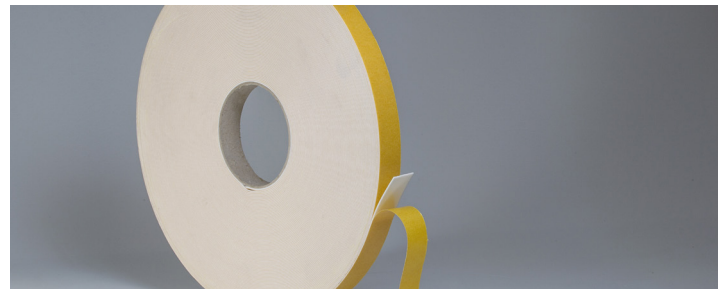




# POLYETHYLENE FOAM

## 1. Physically cross-linked PE Foam

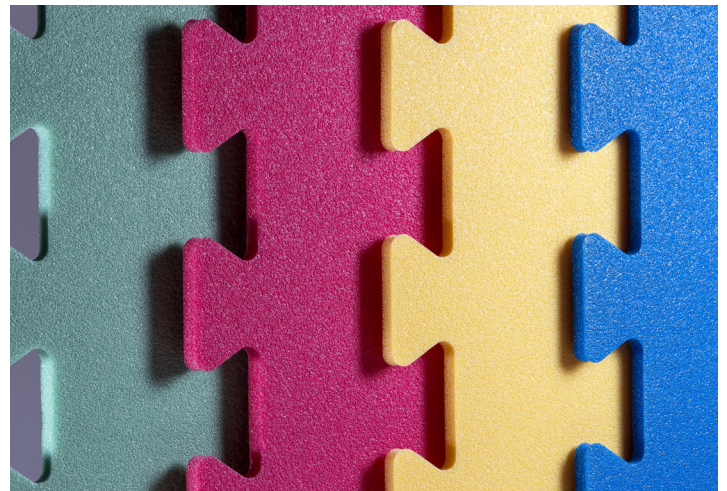
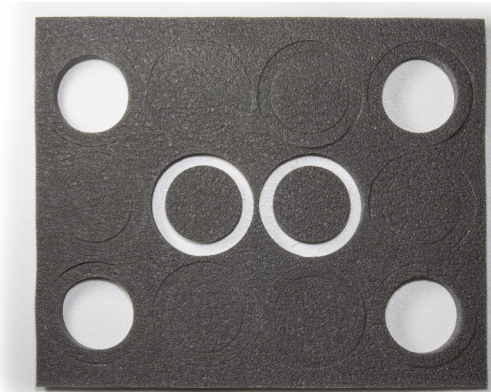
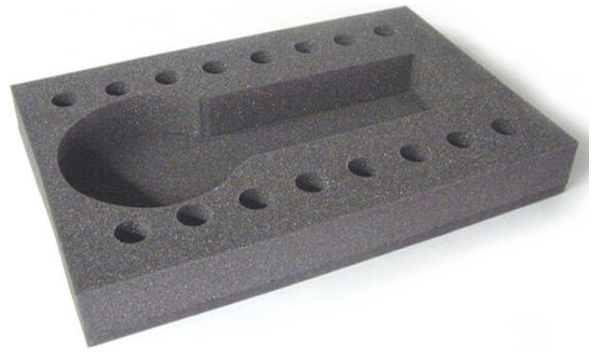
- closed cell physically cross-linked polyethylene foam
- from 15 kg/m<sup>3</sup> to 45 kg/m<sup>3</sup> density options
- -70 °C to + 105 °C working temperature range
- from 1 mm to 100 mm thickness options
- very fine-cell structure, smooth surface, lightweight and high surface energy
- suitable for thermoforming
- fire-retardant (FR) grade available
- high resistance to weathering and effects of solvents
- very low water vapour permeability
- excellent shock absorbing and very good impact sound insulation properties
- meets the FMVSS 302 automotive standard and conforms to RoHS 2002/95/EC directives
- ideal for use in thermal, humidity, sound insulation and vibration damping in automotive, white goods, electronic, aerospace, wind turbine and solar marine, HVAC, construction and building, sports equipment, etc.
- standard colours: anthracite and white, other colours available on request





### 2. Chemically cross-linked PE foam

- closed cell chemically cross-linked polyethylene foam
- from 30 kg/m<sup>3</sup> to 125 kg/m<sup>3</sup> density options
- -40 °C to + 100 °C working temperature range
- from 1 mm to 100 mm thickness options
- fire-retardant (FR) grade available
- suitable for thermoforming
- excellent shock absorbing properties
- meets the **FMVSS 302** automotive standard and conforms to **RoHS 2002/95/EC** directives
- ideal for use in thermal, humidity, sound insulation and vibration damping applications, in cost-effective solutions of automotive, white goods, electronic, aerospace, wind turbine and solar marine, HVAC, construction and building, sports equipment, etc.
- standard colours: dark grey and white, other colours available on request





### 3. Non-cross-linked PE foam

- closed cell non-cross-linked polyethylene foam
- 24 kg/m<sup>3</sup> density, other densities on request
- -40 °C to + 80 °C working temperature range
- 0.055 W/mK thermal conductivity
- from 2 mm to 100 mm thickness options within rolls/sheets
- ideal for use in protective purposed packaging applications such as TV, computer and other electronic, medical, measuring devices, etc. Also suitable for use in glass and furniture transportation.
- in the construction sector, mostly applied under laminates for noise absorption, vibration damping and thermal insulation as a cost-effective solution
- standard colour: white, other colours available on request

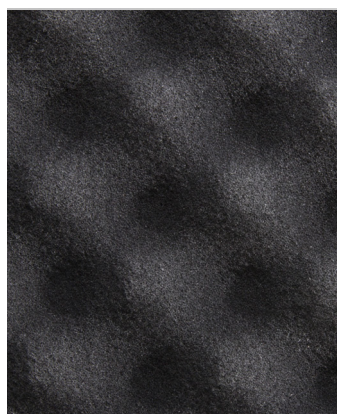




# POLYURETHANE FORM

## 1. Polyester-based PU foam

- open cell structure polyester-based PU foam
- from 18 kg/m<sup>3</sup> to 40 kg/m<sup>3</sup> density options
- -40 °C to + 120 °C working temperature range
- very fine-cell structure
- excellent in sound absorption
- resistant to UV, solvents, oil and low fogging properties
- resistant to abrasion and friction
- self-extinguishing (SE) and fire-retardant (FR) grades available
- rolls, sheets and strips available
- low emission and no odour
- meets the **FMVSS 302** automotive standard and conforms to **RoHS 2002/95/EC** directives
- due to the above features, ester-based PU foam is preferred for use particularly in the automotive sector, such as the inside of panels and doors, roof tops, dashboards and many other applications in the white goods and electronic industries
- standard colours: anthracite and white, other colours available on request



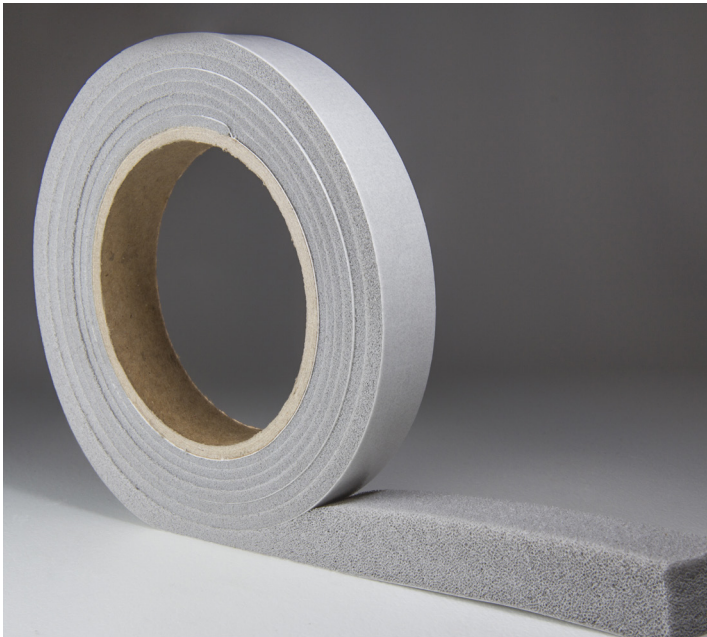
## 2. Polyether-based PU foam

- open cell structure polyether-based PU foam
- from 17 kg/m<sup>3</sup> to 75 kg/m<sup>3</sup> density options
- -40 °C to + 120 °C working temperature range
- self-extinguishing (SE) and fire-retardant (FR) grades available
- very good in sound absorption
- resistant to water and humidity, and harbours no bacteria
- rolls, sheets and strips available
- cost-effective solution
- egg-shape cut sheets available for acoustic applications
- meets the **FMVSS 302** automotive standard and conforms to **RoHS 2002/95/EC** directives
- due to the above features, ether-based PU foam is preferred for use in the white goods, automotive and electronic, construction and building, furniture and many other industries for cost reasons
- standard colours: anthracite and white, other colours available on request



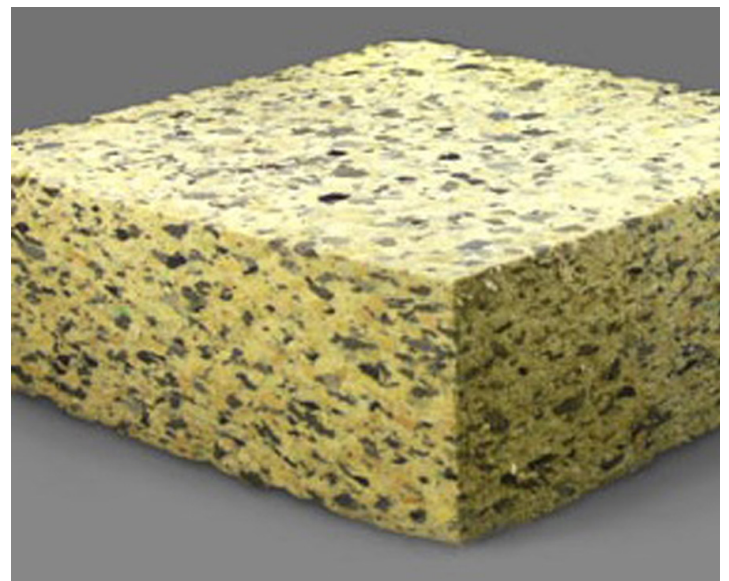
### 3. Acrylic-impregnated PU foam

- open cell structure of acrylic-impregnated ether-based PU foam
- meets the **FMVSS 302** automotive standard and conforms to **RoHS 2002/95/EC** directives
- its special feature is that after 60%-70% compression of the thickness it then fulfils the requirements for sealing against water, oil, air and dust
- there are three main grades of tapes: indoor use, indoor-outdoor use and outdoor use; depending on the application area and conditions (e.g. temperature, UV light, acid rain, solvents, etc.) providing the right grade of tape for cost-effective solutions
- wide range of applications in the automotive, white goods, metal/PVC window profile industries, etc.
- colour availability: light grey and dark grey



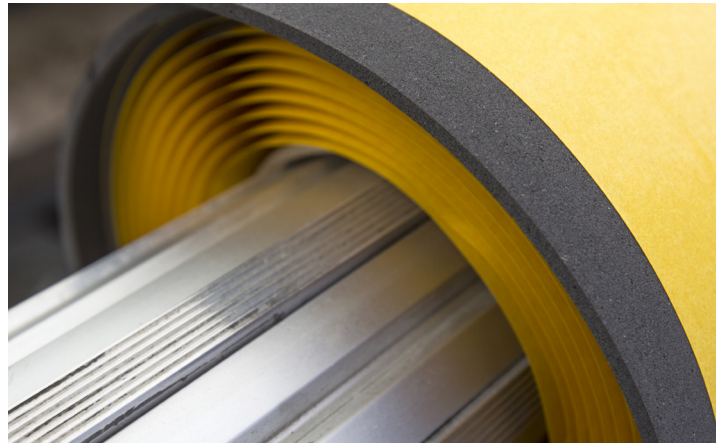
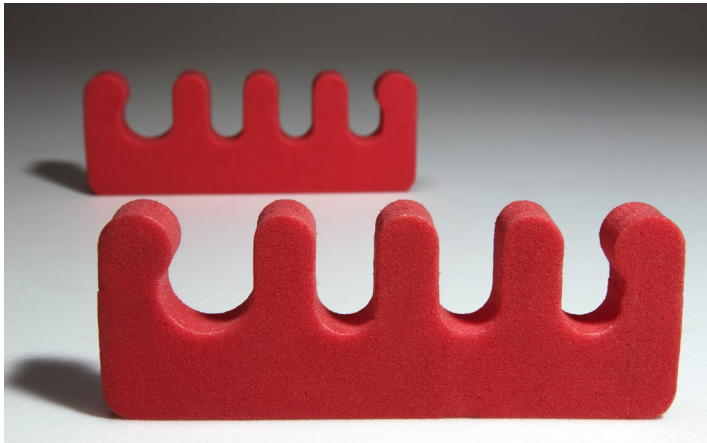
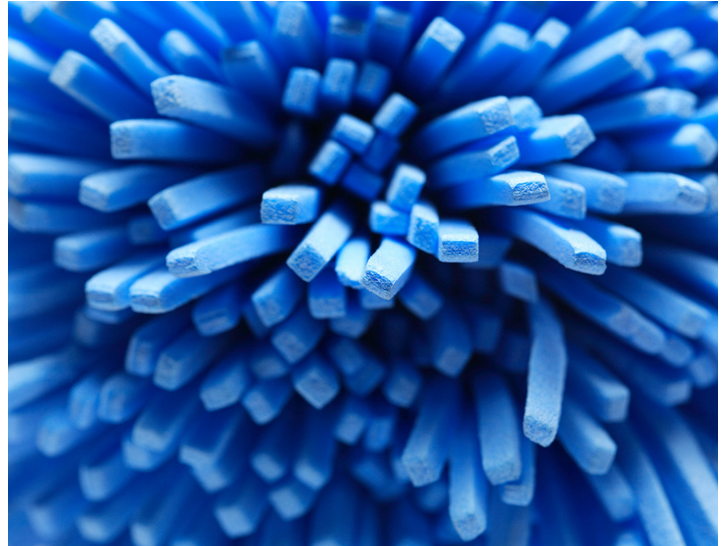
### 4. Rebonded PU foam

- open cell structure PU foam
- rebonded from recycled PU foams
- from 80 kg/m<sup>3</sup> to 200 kg/m<sup>3</sup> density options
- -40 °C to + 120 °C working temperature range
- from 2 mm to 200 mm thickness options within sheets (without multi-layer lamination), strips, die-cut forms with or without self adhesive
- excellent in sound and vibration damping
- cost-effective solution
- due to low cost with high sound and vibration damping features, it is ideal for use in automotive applications such as bumper parts, gap fillers and also in sport cushions and as block filling between walls in the construction industry



## EVA FOAM

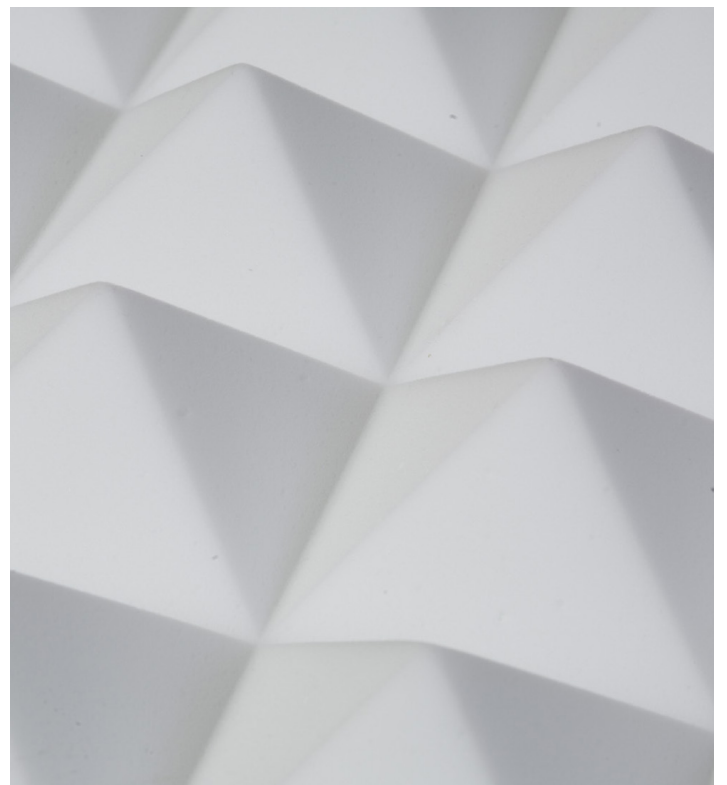
- closed cell structure EVA foam
- 80 - 100 kg/m<sup>3</sup> density
- 14 Shore A hardness
- very fine-cell structure and good on surface energy
- from 1.5 mm to 35 mm thickness within 1 mm width of rolls, sheets, slit rolls, die-cut and continuous kiss-cut forms with or without self-adhesive
- ideal for use as bumpers and gasketing, air and dust sealing in many industrial applications.
- also used for the direct consumer market as slippers, floor covering in schools and advertising products
- standard colours: black and white, other colours available on request



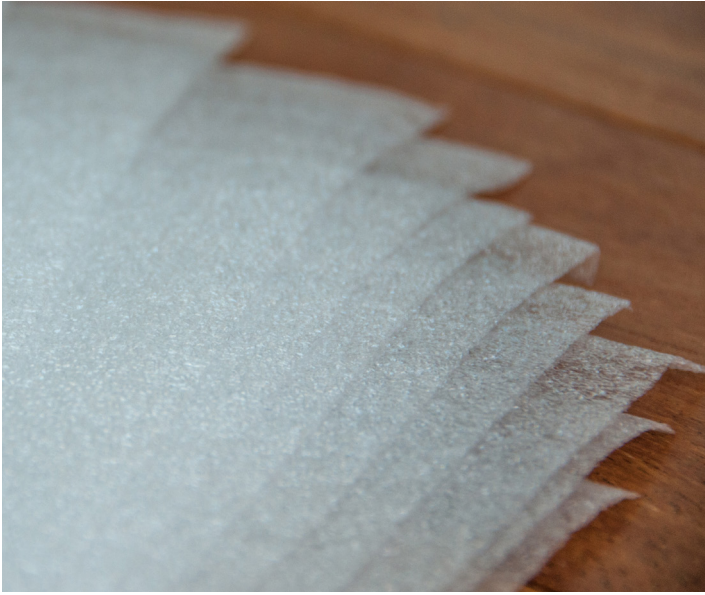
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## MELAMINE FOAM

- open cell structure melamine foam
- 9 kg/m<sup>3</sup> density (lightweight)
- up to +200 °C working temperature range
- high sound absorption
- low thermal conductivity (< 0.035 W/mK)
- high fire resistance
- no brittleness at low temperatures
- flat and pyramid-shaped sheets available
- meets the **FMVSS 302** automotive standard and conforms to **RoHS 2002/95/EC** directives
- can be laminated with aluminium foil to increase the sound/heat insulation performance while having water and oil repellence properties due to these laminations
- ideal for use in engine rooms, panel sides in automotive and marine industries with self-adhesive application in line with required dimensions
- also suitable for a wide range applications in the construction and building sector (e.g. studios, cinemas, etc.)
- standard colours: light grey, white

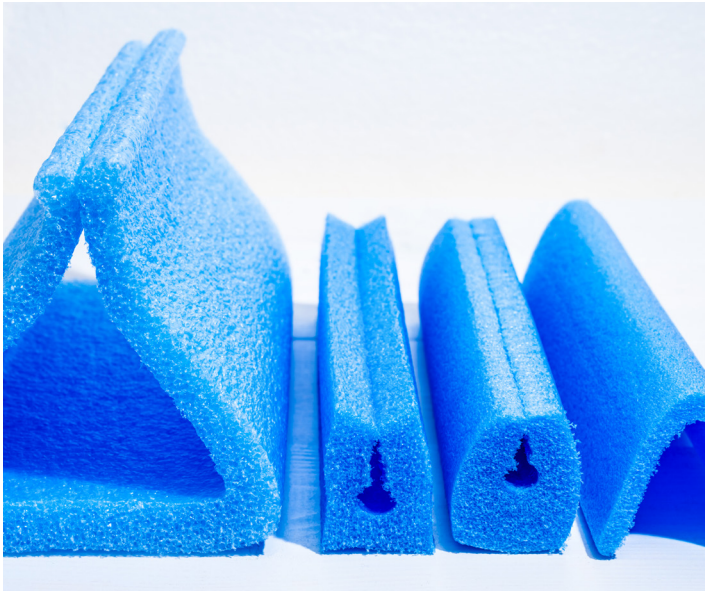






## PACKAGING FOIL

- made of closed cell extruded polyethylene
- excellent solution for packaging products that require special protection
- protection of sensitive surfaces against mechanical damage
- the foil is light, elastic and easy to use
- expanded using environmentally-compatible materials without CFCs or HCFCs
- available as bags, ribbon and sleeve formats
- available in various dimensions, shapes etc. according to customers' specific requirements



## PACKAGING PROFILES

packaging profiles are made of closed cell extruded polyethylene

standard profile shapes:

- L profiles
- U profiles
- G profiles
- profiles for glass
- other special profiles



## PIPE INSULATION

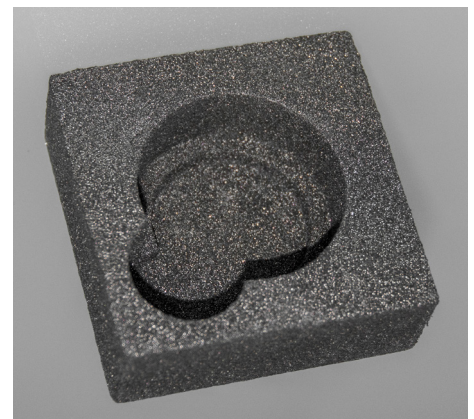
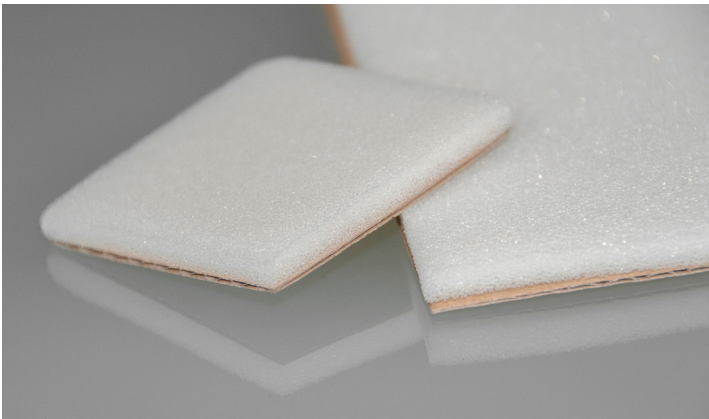
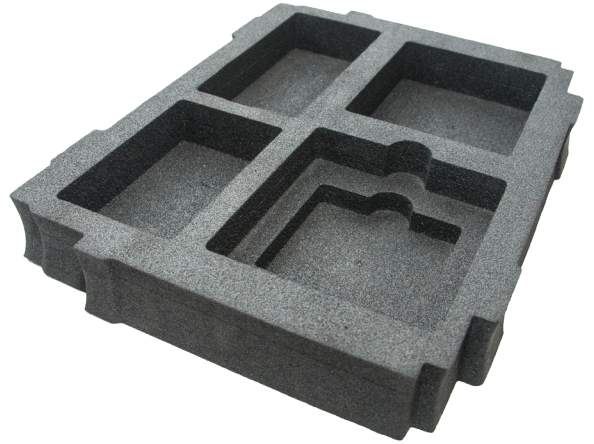
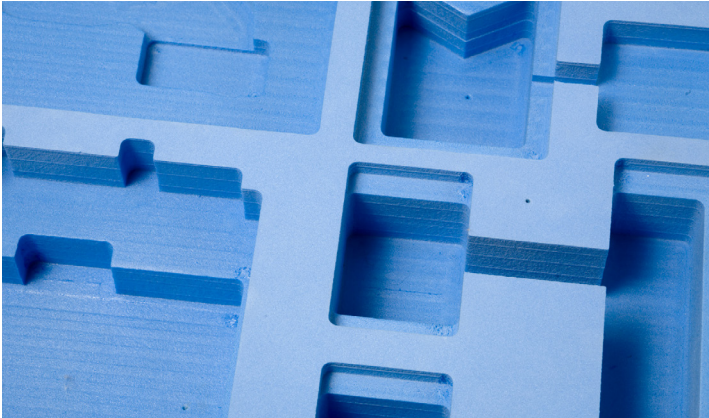
Pipe insulation can be used on any piping system whether copper, steel, plastic, solar or hydronic, on HVAC systems and water pipes. A large variety of pipe insulation products are available allowing you to choose the product that best fits your needs.

advantages:

- provides heat insulation
- provides sound insulation
- prevents condensation
- protects against corrosion



## PRACTICAL EXAMPLES FOR PACKAGING









certified according to  
**ISO 9001:2008**  
**ISO/TS 16949:2009**

**SSA Europe GmbH**  
Technical adhesive tapes



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