

Technical Datasheet – RE100 - Bonded foam 100kgs/m³ (Colored)

The reconstituted polyurethane foam is produced with a discontinuous method. Crushed polyurethane is mixed with prepolymer and is fed into a metal mold. The mixture of crushed material and binder is then pressed by means of a mechanical press. The binding reaction (reaction of the prepolymer) is induced by steaming the block. The blocks are slightly wet immediately after steaming. Most of the water evaporates within 24hrs. after production. The residual moisture gradually decreases.

The reconstituted polyurethane foam except crushed polyurethane, prepolymer may also contain particles with jute or other textile, paper, rubber coated fabric, foam rubber, LDPE, or HDPE film. The presented type of foam is offered in the form of blocks, panels, cut parts and shaped parts. The material can be used in upholstery, the building industry and in production of sporting goods (mats) and in other areas.

| Properties | Test Method | Unit | Tolerance | Value |
|---------------------|-------------------------------------|-------------------|-------------------|----------|
| Density | ČSN EN ISO 845 | Kg/m ³ | - | 90 - 120 |
| CLD 40% | ČSN EN ISO 3386-1 | kPa | without guarantee | min. 11 |
| Tensile strength | ČSN EN ISO 1798 | kPa | without guarantee | min. 70 |
| Compression set | ČSN EN ISO 1856 | % | without guarantee | max 15 |
| Combustion velocity | ČSN EN ISO 3795, TL1010, MVSS302 | mm/min | without guarantee | max 100 |

The pressing technology creates non-homogenous distribution of the volume weight in the produced foam block. Due to this effect, different areas of the produced block and material have variable density and hardness. Specification of the volume weight is based on measuring and weighing of the complete block.

Certificates

Molitan, a.s declares validity of Öko – tex standard 100 certificates for all types of reconstituted polyurethane.

Packing, Transporting and Storing

Panels, cut-to-size elements and shaped pieces are packed in PE film fixed with adhesive tape.

The panels are not compressed. Blocks are not packed.

Transport in enclosed, clean lorries in agreement with valid transport regulations.