

## ISOLATION / VIBRATION DAMPING

### RUGRAN – polyurethane/rubber granulate



RUGRAN	Thickness	Weight
L4	4 mm	680 kg/m <sup>3</sup>
L5	5 mm	
L6	6 mm	

#### Description

Rugran is a polyurethane/rubbergranulate for the insulation of air-borne and structure-borne sound, also suitable for the thermal insulation.  
Rugran has a black colour.

#### Characteristics

- Rugran is chemically neutral, decay-free and contains no products that are harmful for the environment
- Combustibility according to DIN 4102, class B2
- Highly resistant to ageing

#### Application

Insulation of structure-borne sound for railways, runways, air-conditioning installations etc.  
Rugran can be used in a number of applications, e.g. on and under floors (separation walls), underneath all kinds of floor-covering, against walls, glass containers etc.  
Insulation of air-borne sound for floors and walls  
Rugran can also be used as a core material in sandwich panels, either made from wood or steel thermal insulation for floors, walls and roofs

#### Processing

Depending on the application, the product is loose laid or glued with TEROKAL-2444 contact adhesive (approx. 300 g/m<sup>2</sup>) or with BARYVIBRO V607 two-component adhesive (approx. 1,0 kg/m<sup>2</sup>)

#### Sizes

Plates: l x w = standard 2510 x 1260 mm  
Standard thickness 4, 6, 8, 10, 12, 15 mm  
Also available on rolls (various sizes)

**Mechanical properties**

Material strength at 8 mm thickness:

- Maximum tensile stress 0,33 N/mm<sup>2</sup>
- Elongation at break 40%
- Wear at torsion 5 N/mm<sup>2</sup>
- Compressive stress at 10% deflection 0,09 N/mm<sup>2</sup>
- Static rigidity at 10% compression 163 MN/m<sup>3</sup>
- Static E-modulus 1,4 N/mm/m<sup>2</sup>
- Dynamic rigidity 52 N/mm<sup>2</sup>
- Hardness in shore A 49°
- Resistance to shock 40%
- Compressive strength 0,25 kg/mm<sup>2</sup>
- Water- en water vapour pervious cavities 25 - 30%

**Thermal properties**

Coefficient of heat conductivity 0,14 W/mK acc. to DIN 52612  
Temperatures from -120 up to +300° C

**Acoustic properties**

Improvement of structure-borne noise when used as insulation under cement finishing floor 240 kg/m<sup>2</sup> = 23 dB (acc. to DIN 4109)

**ATIS International B.V.**

Noordhoek 33  
3351 LD Papendrecht  
Postbus 14  
3350 AA Papendrecht

T 31 (0)78 615 00 44  
F 31 (0)78 615 49 48  
info@atis-international.com  
www.atis-international.com

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