

## 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	

<b>Description</b>	Rugran is a polyurethane/rubber granulate for the insulation of air-borne and structure-borne sound, also suitable for the thermal insulation. Rugran has a black color.
<b>Characteristics</b>	<ul style="list-style-type: none"> <li>• Rugran is chemically neutral, decay-free and contains no products that are harmful for the environment</li> <li>• Combustibility according to DIN 4102, class B2</li> <li>• Highly resistant to ageing</li> </ul>
<b>Application</b>	<p>Insulation of structure-borne sound for railways, runways, air-conditioning installations etc.</p> <p>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.</p> <p>Insulation of air-borne sound for floors and walls</p> <p>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</p>
<b>Processing</b>	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> )
<b>Dimensions</b>	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- and water vapor 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)