

Test results of silicate resin with CRF+ fibreglass 1050 g/mm² and 1400 g/mm²

A) Use of CRF(+) fibreglass mat 1050 g/m²:

1. Density after DIN EN ISO 1183-18:

- ResinType W01: ≈ 1.45 g/cm³
- ResinType W: ≈ 1.52 g/cm³
- ResinType S: ≈ 1.51 g/cm³
- mixture of ResinType W and ResinType S: ≈ 1.54 g/cm³

2. Calcination after DIN EN ISO 11729

- ResinType W01: ≥ 57%
- ResinType W: ≥ 52%
- ResinType S: ≥ 58%
- mixture of ResinType W and ResinType S: ≥ 58%

3. Initial E-modulus (1-hour value) after DIN 16869-210:

- ResinType W01: ≥ 5,546 N/mm²
- ResinType W: ≥ 7,850 N/mm²
- ResinType S: ≥ 6,678 N/mm²
- mixture of ResinType W and ResinType S: ≥ 6,439 N/mm²

4. Flexural strength after DIN EN ISO 17811:

- flexural strength with ResinType W01: ≥ 161 N/mm²
- flexural strength with ResinType W: ≥ 152 N/mm²
- flexural strength with ResinType S: ≥ 143 N/mm²
- flexural strength with mixture of ResinType W and ResinType S: ≥ 124 N/mm²

B) Use of CRF(+) fibreglass mat 1400 g/m²:

1. Density after DIN EN ISO 1183-18:

- ResinType W01: ≈ 1.54 g/cm³
- ResinType W: ≈ 1.62 g/cm³
- ResinType S: ≈ 1.55 g/cm³
- mixture of ResinType W and ResinType S: ≈ 1.61 g/cm³

2. Residue on ignition after DIN EN ISO 11729

- ResinType W01: ≥ 55%
- ResinType W: ≥ 57%
- ResinType S: ≥ 59%
- mixture of ResinType W and ResinType S: ≥ 60%

3. Initial E-modulus (1-hour value) after DIN 16869-210:

- Type W01: ≥ 5,102 N/mm²
- ResinType W: ≥ 6,429 N/mm²
- ResinType S: ≥ 5,786 N/mm²
- mixture of ResinType W and ResinType S: ≥ 7,735 N/mm²

4. Flexural strength after DIN EN ISO 17811:

- flexural strength with ResinType W01: ≥ 124 N/mm²
- flexural strength with ResinType W: ≥ 178 N/mm²
- flexural strength with ResinType S: ≥ 143 N/mm²
- flexural strength with mixture of ResinType W and ResinType S: ≥ 143 N/mm²