

## Technical Data Sheet

# Durostone<sup>®</sup> EPC 204

GFK-EP

### Typical characteristics

- Flame retardant
- Epoxy (EP) resin matrix reinforced with an e-glass fabric

### Typical industries

- Switchgear
- 전기 산업
- Electrical Insulating Components

|  | Test method | Unit                | Guideline value  |
|--|-------------|---------------------|------------------|
| <b>Mechanical properties</b>                         |             |                     |                  |
| Density  | ISO 1183    | g / cm <sup>3</sup> | 2,0              |
| Flexural strength <sup>⊥</sup>                       | ISO 178     | MPa                 | 500              |
| Flexural strength <sup>⊥</sup> +150°C                | ISO 178     | MPa                 | 350              |
| Modulus of elasticity in flexion <sup>⊥</sup>        | ISO 178     | MPa                 | 25000            |
| Modulus of elasticity in flexion <sup>⊥</sup> +150°C | ISO 178     | MPa                 | 21000            |
| Compressive strength <sup>⊥</sup>                    | ISO 604     | MPa                 | 500              |
| Tensile strength II                                  | ISO 527     | MPa                 | 350              |
| Impact strength II (Charpy)                          | ISO 179     | kJ / m <sup>2</sup> | 120              |
| Shear strength II                                    | IEC 60893   | MPa                 | 35               |
| <b>Thermal properties</b>                            |             |                     |                  |
| Flammability   | UL 94       | /                   | V0 / 2mm         |
| Temperature index                                    | IEC 60216   | T.I.                | 155              |
| Insulation class                                     | IEC 60085   | /                   | F                |
| <b>Physical properties</b>                           |             |                     |                  |
| Water absorption (4mm thickness)                     | ISO 62      | %                   | < 0,1            |
| <b>Dielectrical properties</b>                       |             |                     |                  |
| Electric strength 90°C under oil <sup>⊥</sup>        | IEC 60243   | kV / mm             | 15               |
| Electric strength 90°C under oil II                  | IEC 60243   | kV/25mm             | 100              |
| Insulation resistance                                | IEC 60167   | Ω                   | 10 <sup>12</sup> |
| Comparative tracking index                           | IEC 60112   | CTI                 | 600              |
| Insulation resistance after 24 h water immersion     | IEC 60167   | Ω                   | 10 <sup>10</sup> |

[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)



L = perpendicular to the lamination II = parallel to the lamination

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[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

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