

Technical Data Sheet

Durostone[®] UPM S2 red

Typical characteristics

- Matriz de resina de éster de vinilo (VE) especial reforzada con una combinación de tela y tapete de vidrio electrónico
- Laminado de alta presión SMC
- Alta resistencia mecánica
- Extremadamente alta resistencia mecánica y dieléctrica y baja inflamabilidad.

Typical industries

- Generadores y motores

| | Test method | Unit | Guideline value |
|---|-------------|---------------------|-----------------|
| Mechanical properties | | | |
| Density | ISO 1183 | g / cm ³ | 1,95 |
| Flexural strength ¹⁾ ⊥ | ISO 178 | MPa | 350 |
| Flexural strength ¹⁾ ⊥ +130°C | ISO 178 | MPa | 175 |
| Modulus of elasticity in flexion ¹⁾ ⊥ | ISO 178 | MPa | 18000 |
| Modulus of elasticity in flexion ¹⁾ ⊥ +130°C | ISO 178 | MPa | 12000 |
| Compressive strength ⊥ | ISO 604 | MPa | 480 |
| Tensile strength II | ISO 527 | MPa | 220 |
| Impact strength II (Charpy) | ISO 179 | kJ / m ² | 200 |
| Thermal properties | | | |
| Flammability | UL 94 | / | V0 / 5mm |
| Smoke density & toxicity, class | NF F 16-101 | / | F0 |
| Fire test, class | NF P 92-501 | / | M2 |
| Temperature index | IEC 60216 | T.I. | 155 |
| Insulation class | IEC 60085 | / | F |
| Physical properties | | | |
| Water absorption (4mm thickness) | ISO 62 | % | < 0,5 |

| | Test method | Unit | Guideline value |
|--|-------------|---------------|-----------------|
| Dielectrical properties | | | |
| Electric strength 90°C under oil \perp | IEC 60243 | kV / mm | 12 |
| Electric strength 90°C under oil II | IEC 60243 | kV/25mm | 75 |
| Relative permittivity (50 Hz) | IEC 60250 | ϵ_r | 4 |
| Dielectric loss factor (50 Hz) | IEC 60250 | $\tan \delta$ | 0,01 |
| Specific surface resistance | IEC 60093 | Ω | 10^{10} |
| Comparative tracking index | IEC 60112 | CTI | 600 |

= perpendicular to the lamination II = parallel to the lamination

1) Sample size 80 x 10 x 4 mm, support distance 64 mm, tension zone unmachined

The data stated above are average values verified on the basis of regular statistical tests and controls. All information in this publication is based on current technical knowledge and experience. Due to the large number of possible influences during processing and application, it does not exempt the user/processor from carrying out their own tests and trials. Responsibility for the evaluation of the end product for the intended use and compliance with the applicable relevant legal requirements lies exclusively with the user/processor as well as the distributor of the respective product/end product. Suggested uses do not constitute an assurance of suitability for the recommended purpose. The information in this publication and our declarations in Connection with this publication do not constitute acceptance of a guaranteed or warranted characteristic. Guarantee declarations require our separate express written declaration in order to be effective. We reserve the right to adapt the product to technical progress and new developments. The products described in this publication are only sold to customers with the appropriate expertise and not to consumers. Please do not hesitate to contact us if you have any questions or if you experience any specific application problems. If the application for which our products are used is subject to an official approval requirement, the user/processor is responsible for obtaining these approvals. Our application recommendations do not exempt the user/processor from the obligation to examine and, if necessary, clarify the possibility of infringements of third-party rights. In all other respects, we refer to our General Terms and Conditions (GTC). These are available at: www.roechling-industrial.com/gtc

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