## Röchling

# Technical Data Sheet Durostone<sup>®</sup> EPR S1

#### **Typical characteristics**

#### **Typical industries**

- Alta resistencia mecánica
- Extremadamente alta
- resistencia mecánica y dieléctrica y baja inflamabilidad.
- Generadores y motores
  Transmisión de corriente continua de alta tensión
- (HVDC)
- Sector de la construcciónEquipos de superficie
- Sector eléctrico

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm <sup>3</sup>	1,9
Flexural strength <sup>⊥</sup>	ISO 178	MPa	500
Modulus of elasticity in flexion <sup><math>\perp</math></sup>	ISO 178	MPa	20000
Compressive strength $^{\perp}$	ISO 604	MPa	300
Tensile strength II	ISO 527	MPa	400
Impact strength II (Charpy)	ISO 179	kJ / m²	100
Delamination force II	DIN 53463	N	4000
Thermal properties			
Thermal conductivity <sup>⊥</sup>		W / (m * K)	0,3
Coefficient of linear expansion II	TMA (Mettler)	10 <sup>-6</sup> x K <sup>-1</sup>	10 - 20
Temperature index	IEC 60216	т.і.	180
Insulation class	IEC 60085	1	Н
Dielectrical properties			
Electric strength 90°C under oil $^\perp$	IEC 60243	kV / mm	13
Relative permittivity (50 Hz)	IEC 60250	٤ <sub>r</sub>	≈ 5
Specific surface resistance	IEC 60093	Ω	10 <sup>13</sup>
Specific volume resistance	IEC 60093	Ωxcm	10 <sup>14</sup>
Comparative tracking index	IEC 60112	CTI	225

= perpendicular to the lamination  $\ensuremath{\mathsf{II}}$  = parallel to the lamination

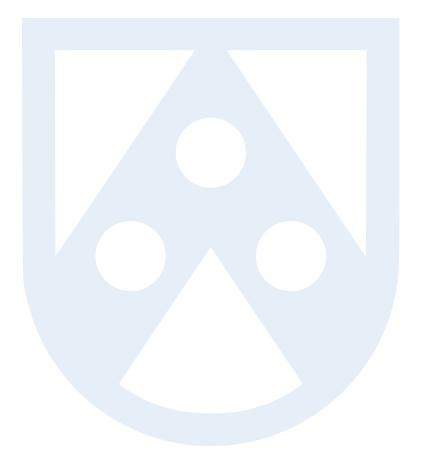
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### Industrial

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