

## **Technical Data Sheet**

# **Durostone® 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
Mechanical properties			
Density	ISO 1183	g / cm <sup>3</sup>	2,0
Flexural strength <sup>1</sup>	ISO 178	MPa	500
Flexural strength <sup>1</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
Thermal properties			
Flammability	UL 94	1	V0 / 2mm
Temperature index	IEC 60216	T.I.	155
Insulation class	IEC 60085		F
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	< 0,1
Dielectrical properties			
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>

 $<sup>^{\</sup>perp}$  = perpendicular to the lamination II = parallel to the lamination

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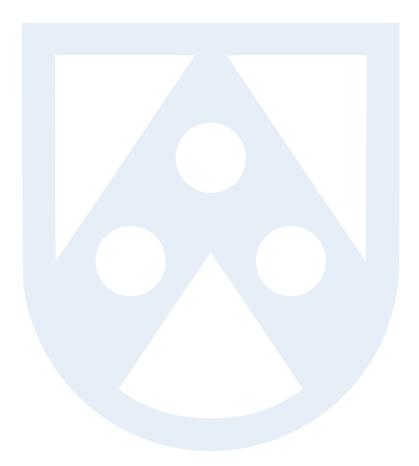
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