

### 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
- Electrical Industry
- 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>

