

Technical Data Sheet

Durostone[®] EPR S7

GFK-EP

Typical characteristics

- DIN EN 60893 compliant

Typical industries

- Pipelines
- Electrical Industry
- Healthcare
- Electrical Insulating Components
- Topside
- Ballistics

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,9
Mechanical properties			
Flexural strength [⊥]	ISO 178	MPa	500
Flexural strength [⊥] +150°C	ISO 178	MPa	250
Modulus of elasticity in flexion ¹⁾ [⊥]	ISO 178	MPa	22500
Modulus of elasticity in flexion [⊥] +150°C	ISO 178	MPa	17000
Compressive strength [⊥]	ISO 604	MPa	500
Tensile strength II RT	ISO 527	MPa	350
Impact strength II (Charpy)	ISO 179	kJ / m ²	250
Thermal properties			
Thermal conductivity	DIN 52612	W/m K	0,35
Coefficient of linear expansion [⊥]	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	40-60
Coefficient of linear expansion II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	15-30
Temperature index	IEC 60216	T.I.	155
Insulation class	IEC 60085	/	F
Physical properties			
Water absorption (method 1)	ISO 62	%	<0,2
Dielectrical properties			

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	Test method	Unit	Guideline value
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	12
Electric strength 90°C under oil II	IEC 60243	kV/25mm	60
Comparative tracking index (test solution A)	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

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