

Technical Data Sheet

Durostone[®] EPR S7

Typical industries

- Pipelines
- 전기 산업
- Healthcare
- Electrical Insulating Components
- Topside

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,9
Mechanical properties			
Flexural strength \perp	ISO 178	MPa	500
Flexural strength \perp +150°C	ISO 178	MPa	250
Modulus of elasticity in flexion ¹⁾ \perp	ISO 178	MPa	22500
Modulus of elasticity in flexion \perp +150°C	ISO 178	MPa	17000
Compressive strength \perp	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 \perp	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			
Electric strength 90°C under oil \perp	IEC 60243	kV / mm	12

Röchling Industrial SE & Co. KG

Röchlingstr. 1 • 49733 Haren (Ems)/Germany (DE) • Tel. +49 5934 701-0
 info@roechling-plastics.com • www.roechling.com/industrial/haren

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	Test method	Unit	Guideline value
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

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.

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