

Technical Data Sheet

Durolight® S7

Typical industries

- LNG engines - Cryogenic Insulation
- Pipelines
- Subsea
- Healthcare

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,9
Mechanical properties			
Flexural strength ^{1) ⊥}	ISO 178	MPa	500
Flexural strength ^{1) ⊥} +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
Impact strength [⊥] (Charpy)	ISO 179	kJ / m ²	250
Thermal properties			
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
Thermal conductivity	ISO 8302	W/m K	0,35
Physical properties			
Water absorption (method 1)	ISO 62	%	<0,2

⊥ = 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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