

テクニカルデータシート

Durolight[®] S2

製品の特徴

- 低い熱伝導率
- 高い機械的強度
- 極低温用途に最適

製品の用途例

- LNG エンジン- 極低温断熱
- パイプライン
- 海中
- ヘルスケア

	試験法	単位	値
機械的物性			
密度	ISO 1183	g / cm ³	1,95
曲げ強度 ¹⁾ ⊥ 0°C	ISO 178	MPa	350
曲げ強度 ¹⁾ ⊥ +50°C	ISO 178	MPa	300
曲げ強度 ¹⁾ ⊥ +100°C	ISO 178	MPa	200
曲げ強度 ¹⁾ ⊥ +150°C	ISO 178	MPa	110
曲げ強度 ¹⁾ ⊥ -50°C	ISO 178	MPa	450
曲げ強度 ¹⁾ ⊥ -150°C	ISO 178	MPa	600 ²⁾
曲げ強度 ¹⁾ ⊥ -196°C	ISO 178	MPa	700 ²⁾
曲げ強度 ¹⁾ ⊥ -100°C	ISO 178	MPa	510
たわみ荷重弾性係数 ¹⁾ ⊥ 0°C	ISO 178	MPa	18000
圧縮強度 ¹⁾ ⊥ 0°C	ISO 604	MPa	450
圧縮強度 ¹⁾ ⊥ +50°C	ISO 604	MPa	400
圧縮強度 ¹⁾ ⊥ +100°C	ISO 604	MPa	250
圧縮強度 ¹⁾ ⊥ +150°C	ISO 604	MPa	180
圧縮強度 ¹⁾ ⊥ -50°C	ISO 604	MPa	550
圧縮強度 ¹⁾ ⊥ -100°C	ISO 604	MPa	650
圧縮強度 ¹⁾ ⊥ -150°C	ISO 604	MPa	750 ²⁾
圧縮強度 ¹⁾ ⊥ -196°C	ISO 604	MPa	850 ²⁾
引張強度 II RT	ISO 527	MPa	180
衝撃強度 ¹⁾ (シャルピー) RT	ISO 179	kJ / m ²	200

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	試験法	単位	値
せん断強度 II RT	DIN EN 60893	MPa	25
熱的物性			
熱伝導率 [⊥] RT		W / (m * K)	≈ 0,38 ^{2) 3)}
熱伝導率 [⊥] - 50° C		W / (m * K)	≈ 0,35 ^{2) 3)}
熱伝導率 [⊥] -196		W / (m * K)	≈ 0,27 ^{2) 3)}
機械的特性			
吸水率 ((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

²⁾ Extrapolated value

³⁾ Thermal conductivity calculated by means of reference measurements on samples of 300 x 200 x 10 mm

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. Responsibility for the evaluation of the end product for the intended use and compliance with the applicable relevant legal requirements lies exclusively with the user/processor as well as the distributor of the respective product/end product. Suggested uses do not constitute an assurance of suitability for the recommended purpose. The information in this publication and our declarations in Connection with this publication do not constitute acceptance of a guaranteed or warranted characteristic. Guarantee declarations require our separate express written declaration in order to be effective. We reserve the right to adapt the product to technical progress and new developments. The products described in this publication are only sold to customers with the appropriate expertise and not to consumers. Please do not hesitate to contact us if you have any questions or if you experience any specific application problems. If the application for which our products are used is subject to an official approval requirement, the user/processor is responsible for obtaining these approvals. Our application recommendations do not exempt the user/processor from the obligation to examine and, if necessary, clarify the possibility of infringements of third-party rights. In all other respects, we refer to our General Terms and Conditions (GTC). These are available at: www.roechling-industrial.com/gtc

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Page 2 / 2 (Dates in DD/MM/YYYY)

