

テクニカルデータシート

Durolight® S

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
- 水素エネルギー

	試験法	単位	値
機械的物性			
密度	ISO 1183	g / cm ³	1,85
曲げ強度 [⊥] 0°C	ISO 178	MPa	140
曲げ強度 [⊥] +50°C	ISO 178	MPa	125
曲げ強度 [⊥] +100°C	ISO 178	MPa	110
曲げ強度 [⊥] +150°C	ISO 178	MPa	80
曲げ強度 [⊥] -50°C	ISO 178	MPa	160
曲げ強度 [⊥] -100°C	ISO 178	MPa	175
曲げ強度 [⊥] -150°C	ISO 178	MPa	190 ¹⁾
曲げ強度 [⊥] -196°C	ISO 178	MPa	205 ¹⁾
たわみ荷重弾性係数 [⊥] 0°C	ISO 178	MPa	9000
圧縮強度 [⊥] 0°C	ISO 604	MPa	250
圧縮強度 [⊥] +50°C	ISO 604	MPa	220
圧縮強度 [⊥] +100°C	ISO 604	MPa	190
圧縮強度 [⊥] +150°C	ISO 604	MPa	160
圧縮強度 [⊥] -50°C	ISO 604	MPa	280
圧縮強度 [⊥] -100°C	ISO 604	MPa	310
圧縮強度 [⊥] -150°C	ISO 604	MPa	335 ¹⁾
圧縮強度II RT	ISO 604	MPa	170
圧縮強度 [⊥] -196° C	ISO 604	MPa	360 ¹⁾
引張強度II 0°C	ISO 527	MPa	75

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	試験法	単位	値
衝撃強度 $\perp$ (シャルピー) RT	ISO 179	kJ / m ²	75
せん断強度 II RT	DIN EN 60893	MPa	20
熱的物性			
燃焼性	UL 94	/	V0 / 3mm
煙濃度および毒性	NF F 16-101	/	F0
燃焼試験	NF P 92-501	/	M1
熱伝導率 $\perp$ RT		W / (m * K)	$\approx 0,3$ ^{1) 2)}
熱伝導率 $\perp$ - 50° C		W / (m * K)	$\approx 0,27$ ^{1) 2)}
熱伝導率 $\perp$ -196		W / (m * K)	$\approx 0,21$ ^{1) 2)}
機械的特性			
吸水率 (4mm厚)	ISO 62	%	0,2

$\perp$ = perpendicular to the lamination

II = parallel to the lamination

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