

FLAGON CSL

技术资料卡 CTDS-04-19-01

产品描述

FLAGON CSL 是通过挤出法工艺生产的匀质 PVC 合成卷材。卷材的上下表面具有不同的物理 - 化学性能。

- 上表面具有抗 UV 性能
- 下表面具有优异的耐根穿刺性能

由于卷材上下层具有不同的颜色（信号层），当上层卷材被破坏时，可以快速发现破坏所处位置。

CIVILROCK 极其重视产品的质量，我们建立 ISO 9001 质量管理体系。

主要特点

- 卓越的耐候性和抗紫外线性能
- 高断裂伸长率
- 优异的抗机械破坏能力
- 优异的抗穿刺性能
- 优异的根阻性
- 具有信号层

适用范围

FLAGON CSL 是由 PVC-P 制成的专用于水池，水箱，水库以及类似构造的热塑性合成膜，此款卷材可以用于包裹盐类液体，洁净水以及低浓度的化学试剂。更多可适用的化学液体请联系 CIVILROCK 技术部门 (tech-office@flag.it)。

卷材可以通过手工热风焊枪或者自动热风焊机进行安装，亦可以使用双焊缝自动焊机进行焊接，使用双焊缝进行焊接时，可以进行通道气体测试。FLAGON CSL 可以与 FLAGON PVC 系列的所有配件以及卷材相兼容。

产品信息

产品构成	FLAGON CSL			
厚度	1.2mm	1.5mm	1.8mm	2.0mm
长度/宽度	20m (其他长度可根据要求定制) / 2.10m			
每托盘卷数	28	23	18	18
颜色	浅灰色 (表面) / 深灰色 (底面) 玄武岩灰 (顶面) / 深灰色 (下侧) (按要求)			

(所有值为标称值)

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产品信息

产品性能	FLAGON CSL				检测方法
	CSL 1.2	CSL 1.5	CSL 1.8	CSL 2.0	
厚度 (mm)	1.20	1.50	1.80	2.00	EN 1849-2
单位面积质量 (kg/m ²)	1.56	1.95	2.34	2.60	EN 1849-2
拉伸强度 (N/mm ²)	≥ 17.5 (纵向/横向)				EN 527-3
断裂延伸率 (%)	≥ 300				EN 527-3
低温弯折性 (°C)	≤ -30				EN 495-5
不透水性 (6h, 0.5MPa)	通过 < 10 ⁻⁶ m ³ m ⁻² d ⁻¹				EN 1928 (B) EN 14150
耐根穿刺性能	无穿透				CEN TS 14416
抗撕裂强度 (N/mm)	≥ 80 ≥ 45				EN 12310-2 ISO 34 sample fig.2
抗静态穿刺 (N)	> 1450	> 1800	> 2160	> 2450	EN 12236
耐久性: 氧化后, 拉伸性能变化率 (%) 风化后, 拉伸性能变化率 (%)	≤ 25 ≤ 25				EN 14575 EN 12224
热水处理后: 拉伸性能变化率 (%) 质量损失 (%)	< 25 < 5				EN 14415 (A and B)

标准与认证



FLAGON CSL

TECHNICAL DATA SHEET CTDS-04-19-01

DESCRIPTION

FLAGON CSL membrane is a synthetic membrane made by co-extrusion from plasticised PVC. It has different physical-chemical properties on each side:

- the upper surface is treated against UV rays
- the underside is highly resistant to puncture and perforation by roots

Any tears in the upper layer of the membrane can be seen immediately due to the difference in colour between the two sides (signal layer).

CIVILROCK attaches the highest importance to the quality of its products. This is why we operate a quality assurance system according to ISO 9001 BSI certified.

MAIN ADVANTAGES

- High resistance to weathering and UV rays
- High elongation at break
- High mechanical resistance
- High puncture resistance
- Resistance to perforation by roots
- Includes a signal layer

USE - APPLICATION

FLAGON CSL is a thermoplastic membrane made of PVC-P, specifically designed for waterproofing of basins, tanks, canals and similar structures. This membrane can contain salt or fresh water and low-concentration liquid chemicals. To verify the compatibility with the specific chemical liquids, please contact the technical office CIVILROCK (tech-office@flag.it).

The sheets are welded together by applying hot air or using hot wedge, with manual or automatic welder. The welding can be made either with a track that with double track. The double track allow to perform a pneumatic test with air.

FLAGON CSL is compatible with all the accessories and membranes in the FLAGON PVC range.

PRODUCTION STANDARDS

	FLAGON CSL			
Thickness	1,20 mm	1,50 mm	1,80 mm	2,00 mm
Roll length / width	20ml (other lengths available on request) / 2.10ml			
Number of rolls on each pallet	28	23	18	18
Colours available	Light grey (top surface) / Dark grey (underside) Basalt grey (top surface) / Dark grey (underside) (on request)			

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PROPERTIES

Properties	FLAGON CSL				Test method
	CSL 1.2	CSL 1.5	CSL 1.8	CSL 2.0	
Thickness (mm)	1.20	1.50	1.80	2.00	EN 1849-2
Mass per unit area (kg/m ²)	1.56	1.95	2.34	2.60	EN 1849-2
Tensile strength (N/mm ²)	≥ 17.5 (L/T)				EN 527-3
Breaking strength (%)	≥ 300				EN 527-3
Cold bending (°C)	≤ -30				EN 495-5
Water permeability after 6 hrs at 0.5Mpa	Watertight < 10 ⁻⁶ m ³ m ⁻² d ⁻¹				EN 1928 (B) EN 14150
Resistance to perforation by roots	No perforation				CEN TS 14416
Tear resistance (N/mm)	≥ 80 ≥ 45				EN 12310-2 ISO 34 sample fig.2
Static puncture resistance (N)	> 1450	> 1800	> 2160	> 2450	EN 12236
Durability: Oxidation, variation in tensile properties (%) Weathering, variation in tensile properties (%)	≤ 25 ≤ 25				EN 14575 EN 12224
Resistance to thermal ageing in water: variation in tensile strength (%) mass loss (%)	< 25 < 5				EN 14415 (A and B)

(All values are nominal)

CERTIFICATION

