

## HPAF

### 波纹管

### Corrugated conduit

+120°C +248°F  
-50°C -58°F

Material: PA6 MOD V0



- 适用于对防火安全要求很高的场合
- 厚壁型
- 不含卤素和镉
- 柔软性较低
- 防火性能优异
- 耐化学品性能好

- for applications with a high demand for fire safety performances
- with increased wall thickness
- free of halogen and cadmium
- marginal to low flexibility
- low fire hazard characteristics
- good chemical resistance

温度范围 / Temperature range

弯曲性能 / 柔性 / Flexibility/Ductility

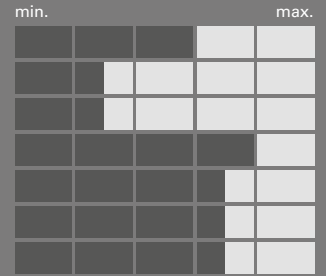
动态性能 / Dynamic

机械防护性能 / Mechanical protection

防火性能 / Fire precaution performance

耐化学品性能 / Chemical resistance

耐候性 / Resistance to weathering



产品号 Part No. <sup>1)</sup>	名义尺寸 Nominal width		接头系统 Fitting system	波型 Profile <sup>2)</sup>	尺寸 Dimensions in mm (nom.) <sup>3)</sup>		弯曲半径 Bending radius in mm	包装单元 PU
	NW	metr.			内径/ ID	外径/ OD		
黑色 / black			FIPLOCK® ONE				stat. R.	m
HPAFC-17B.50	17	10		C	15,8	21,1	35	50
HPAFC-23B.50	23	12		C	22,0	28,5	45	50
HPAFC-29B.50	29	16		C	27,8	34,7	55	50
HPAFC-36B.25	36	20		C	35,8	42,4	60	25
HPAFC-48B.25	48	25		C	46,7	54,5	70	25

您可以通过以下地址查询更多的技术信息 / You can find more technical information here

CADENAS – 产品CAD数据目录 / eCATALOG solutions electronic CAD catalog: <https://fraenkische-ip.partcommunity.com>

<sup>1)</sup> FIPLOCK® 波纹管编码规则 / Part numbering key for FIPLOCK® corrugated conduits: [www.fraenkische-ip.com/fiplock-part-no](http://www.fraenkische-ip.com/fiplock-part-no)

<sup>2)</sup> 波纹管波型 / Conduit profiles: [www.fraenkische-ip.com/fipsystems-profiles](http://www.fraenkische-ip.com/fipsystems-profiles)

<sup>3)</sup> 英制尺寸转换 / Conversion to inch: [www.fraenkische-ip.com/fipsystems-conversion-inch](http://www.fraenkische-ip.com/fipsystems-conversion-inch)



# HPAF 产品性能 / Product performances

应用性能 Application performances	特性 Characteristics	单位 Unit	规范标准 Standards, specifications	备注 Remark
温度范围 / Temperature range	-45 到 / to +120 -49 到 / to +248	°C °F	IEC EN 61386	弯曲性能 / flexible
温度范围 / Temperature range	-50 到 / to +120 -58 到 / to +248	°C °F	IS FIP	
温度 (短周期) / Temperature (short-term)	150 (500 h); 165 (100 h) 302 (500 h); 329 (100 h)	°C °F	IS FIP	
填充率 (最大) / Filling ratio (max.)	70	%	IS FIP	推荐值 / recommendation

机械性能 / Mechanical performances				
冲击强度 / Impact strength	6 / 12...15	J	IS FIP	23°C / 73,4°F
冲击强度 / Impact strength	2	J	IS FIP	-15°C / 5°F
冲击强度 / Impact strength	1J/2J	Joule	FIP-ISTR-1601	-50°C / -58°F
峰值负载 / Peak load value	320	N	IS FIP	
拔脱强度 / Pull out strength	500 / 700	N	IS FIP	23°C / 73,4°F – FIPLOCK ONE NW 17

防火性能 / Fire safety performances				
不含卤素和镉 / Free from halogens and cadmium	是 / yes		DIN EN ISO 63355:2023-08	
阻燃等级 / Fire classification	V0 (V2)		UL 94	
氧指数 / Oxygen index	>35	%	EN ISO 4589-2	
灼热丝测试 / Glow wire test	960	°C	IEC-60695-2-12	0,9 mm
火灾危害等级 / Fire hazardous level	HL3 R22/HL3 R23		EN45545-2	
垂直燃烧测试 / Vertical burning behavior	Vi<100 自熄 Vi<100 self-extinguishing	mm/min	EN ISO 6941:2003	ECE R-118-02 附录 8 ECE R-118-02 annex 8

耐候性 / Weathering performances				
UV- 及耐候性能 UV and weathering performance	好 good		IS FIP	可达 15 年 up to 15 years

测试条件参照EN ISO 139 , 温度 23°C / 湿度50% r. F. (如未注明测试条件). IS FIP = FIP内部测试规范  
Tests carried out acc. EN ISO 139 at 23°C / 50% r. h. (if not indicated differently). IS FIP = Internal Specification FIP

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