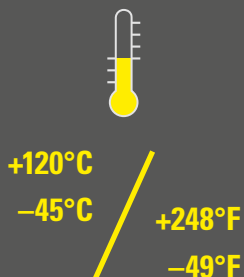
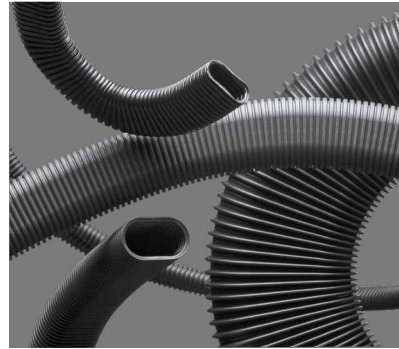


### OPAF

#### 椭圆形波纹管

*Oval special corrugated conduit with excellent self-extinguishing characters*



|                                     | min. |  |  |  | max. |
|-------------------------------------|------|--|--|--|------|
| 温度范围<br>Temperature range           |      |  |  |  |      |
| 柔韧性<br>Flexibility/Ductility        |      |  |  |  |      |
| 动态性能<br>Dynamic                     |      |  |  |  |      |
| 机械保护性能<br>Mechanical protection     |      |  |  |  |      |
| 防火性能<br>Fire precaution performance |      |  |  |  |      |
| 耐化学性能<br>Chemical resistance        |      |  |  |  |      |
| 耐候性<br>Resistance to weathering     |      |  |  |  |      |

材料: PA6 MOD V0

OPAF 波纹管其截面为椭圆形, 所使用材料具有非常优异的防火及低烟性能, 其椭圆形造型节省空间便于安装。产品具有非常优异的柔韧性, 非常适用于非常狭窄的应用场合。

**Material: PA6 MOD V0**

OPAF corrugated conduit with oval cross sections offers good fire and low smoke generation characteristics and allows a space saving installation with optimized cable and wire capacity. Due to the excellent pliability, OPAF is suitable for installations in very narrow application areas.

## OPAF

### 产品性能 / Product performances

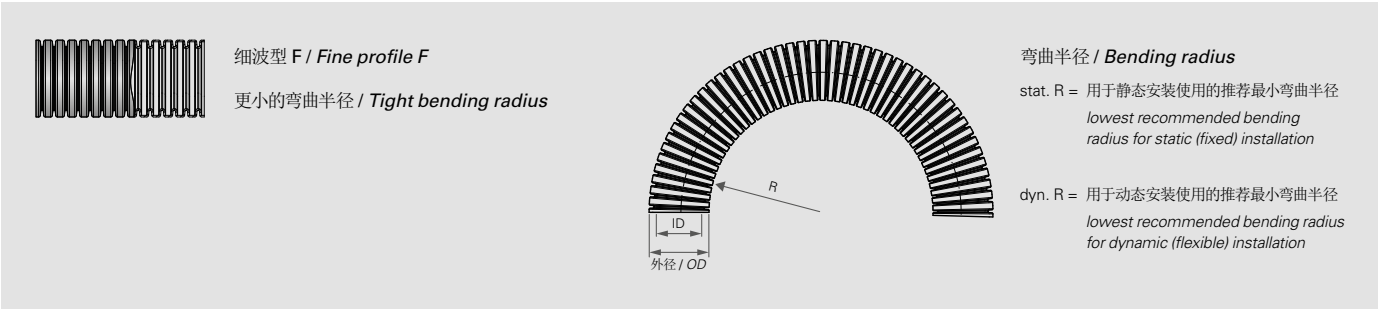
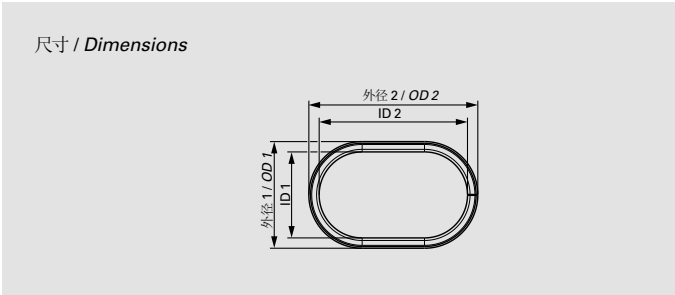
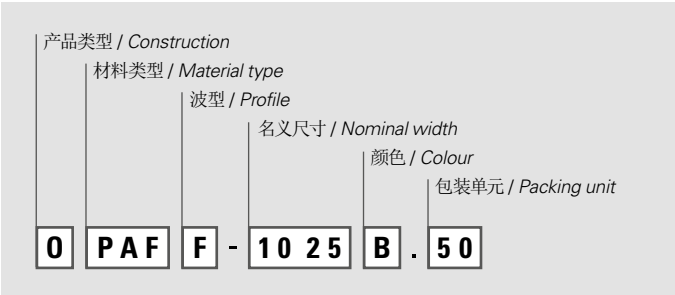
| 应用性能 / Application performances              | 特性<br>Characteristics                                | 单位<br>Unit | 规范标准<br>Standards, specifications | 备注<br>Remark              |
|----------------------------------------------|------------------------------------------------------|------------|-----------------------------------|---------------------------|
| 温度范围<br>Temperature range                    | -45 到 / to +120<br>-49 到 / to +248                   | °C<br>°F   | IS FIP                            |                           |
| 温度（短周期）<br>Temperature (short-term)          | 150 (500 h); 160 (100 h)<br>302 (500 h); 320 (100 h) | °C<br>°F   | IS FIP                            |                           |
| 填充率（最大）<br>Filling ratio (max.)              | 70                                                   | %          | IS FIP                            |                           |
| <b>机械性能 / Mechanical performances</b>        |                                                      |            |                                   |                           |
| 冲击强度<br>Impact strength                      | 6                                                    | J          | IS FIP                            | 23 °C / 73,4 °F           |
| 冲击强度<br>Impact strength                      | 2                                                    | J          | IS FIP                            | -45 °C / -13 °F           |
| 峰值负载<br>Peak load value                      | 125                                                  | N          | IS FIP                            |                           |
| <b>防火性能 / Fire safety performances</b>       |                                                      |            |                                   |                           |
| 不含卤素和镉<br>Free from halogens and cadmium     | 是 / yes                                              |            |                                   |                           |
| 阻燃等级<br>Fire classification                  | V0                                                   |            | UL 94                             |                           |
| 产品防火特性<br>Fire characteristic of the product | 自熄<br>self-extinguishing                             |            | UL 1696                           |                           |
| 易燃性<br>Flammability                          | 自熄<br>self-extinguishing                             |            | FMVSS 302                         |                           |
| 氧指数<br>Oxygen index                          | >30                                                  | %          | EN ISO 4589-2                     |                           |
| 灼热丝测试<br>Glow wire test                      | 960<br>1760                                          | °C<br>°F   | IEC 60695                         |                           |
| 火灾危害等级<br>Fire hazardous level               | HL3 R22/R23 黑色 / black                               |            | EN45545-2                         |                           |
| 火焰蔓延<br>Spread of fire                       | 非火焰蔓延<br>non flame propagating                       |            | IEC EN 61386                      |                           |
| <b>耐候性 / Weathering performances</b>         |                                                      |            |                                   |                           |
| UV及耐候性<br>UV and weathering performance      | 好<br>average to good                                 |            | IS FIP                            | 5 到 10 年<br>5 to 10 years |

测试条件参照EN ISO 139温度23°C, 湿度 / 50% (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 different). IS FIP = Internal Specification FIP

| 产品号<br>Part No. | 名义尺寸<br>Nominal width | 波型<br>Profile | 尺寸 (mm)<br>Dimensions in mm (nom.) |      |         |      | 弯曲半径<br>Bending radius in mm |         | 包装单元<br>PU |
|-----------------|-----------------------|---------------|------------------------------------|------|---------|------|------------------------------|---------|------------|
|                 |                       |               | ID                                 |      | 外径 / OD |      |                              |         |            |
| 黑色 / black      | NW                    |               | 1                                  | 2    | 1       | 2    | stat. R.                     | dyn. R. | m          |
| OPAFF-1025B.50  | 10x25                 | F             | 9,6                                | 24,8 | 14,2    | 29,0 | 35                           | 100     | 50         |
| OPAFF-2034B.50  | 20x34                 | F             | 20,0                               | 34,5 | 24,8    | 39,3 | 45                           | 120     | 50         |
| OPAFF-4082B.25  | 40x82                 | F             | 40,0                               | 82,0 | 49,5    | 92,0 | 70                           | 200     | 25         |

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Please contact our local distribution partner or our customer service regarding product availability, lead time, other sizes and colours.

### 产品代码 / Number code:



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