

# TECAPAI CM XP440 black-green - 型材(棒材,板材,管件)

## 化學命名

PAI (聚醯胺醯亞胺)

## 顏色

黑綠色 不透明

## 密度

1.46 g/cm<sup>3</sup>

## 添加物

石墨, 鐵氟龍

生產製程:壓縮成型

## 主要特色

- 絶佳的耐化學性
- 絶佳的磨損性
- 優異的耐熱性
- 絶佳的尺寸穩定性
- 良好的加工特性

## 目標產業

- 石油和天然氣工業
- 化工和煉油業
- 化工工程
- 加工工程
- 航空與航太科技

## 機械特性

參數	值	單位	標準	註解
彈性模數 (張力測試)	1mm/min	4300	MPa	DIN EN ISO 527-2 1)
斷裂抗拉強度	5mm/min	82	MPa	DIN EN ISO 527-2
斷裂伸長率	5mm/min	4,7	%	DIN EN ISO 527-2
抗彎強度	2mm/min, 10 N	134	MPa	DIN EN ISO 178 2)
彈性模數 (彎曲測試)	2mm/min, 10 N	4000	MPa	DIN EN ISO 178
壓縮強度	1% / 2% / 5%	13/33/87	MPa	EN ISO 604 3)
衝擊強度(Charpy)	max. 7,5J	34	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU 4)
球壓式硬度		193	MPa	ISO 2039-1 5)
蕭氏硬度	D scale	88		DIN EN ISO 868
熱特性	參數	值	單位	標準
玻璃轉化溫度		283	°C	DIN EN ISO 11357
熱膨脹 (CLTE)	23-60°C, longitudinal	3,5	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2
熱膨脹 (CLTE)	23-100°C, longitudinal	3,5	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2
其他特性	參數	值	單位	標準
吸濕性	24h / 96h (23°C)	0,3 / 0,5	%	DIN EN ISO 62
耐燃性(UL94)	3,3 mm	V0		-

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