

## TECAPEEK SM PVX black - 型材(棒材,板材,管件)

**化學命名**  
PEEK (聚醚醚酮)

**顏色**  
黑色 不透明

**密度**  
1.43 g/cm<sup>3</sup>

**添加物**  
碳纖維, 石墨, 鐵氟龍

**主要特色**

- 優異的耐化學性
- 固有的防火性
- 良好的熱變形溫度
- 耐水解和熱蒸氣
- 良好的加工特性
- 良好的滑動及耐磨特性

**目標產業**

- 石油和天然氣工業
- 化學技術
- 能源工業
- 機械工程

<b>機械特性</b>	<b>參數</b>	<b>值</b>	<b>單位</b>	<b>標準</b>	<b>註解</b>
抗拉強度	50mm/min	62	MPa	DIN EN ISO 527-2	1)
彈性模數 (張力測試)	1mm/min	6000	MPa	DIN EN ISO 527-2	
斷裂伸長率	50 mm/min	2	%	DIN EN ISO 527-2	
抗彎強度	2mm/min, 10 N	116	MPa	DIN EN ISO 178	2)
彈性模數 (彎曲測試)	2mm/min, 10 N	6400	MPa	DIN EN ISO 178	
衝擊強度(Charpy)		17	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA	
球壓式硬度		206	MPa	ISO 2039-1	3)
<b>熱特性</b>	<b>參數</b>	<b>值</b>	<b>單位</b>	<b>標準</b>	<b>註解</b>
玻璃轉化溫度		150	°C	DIN EN ISO 11357	1)
熔化溫度		341	°C	DIN EN ISO 11357	
使用溫度	short term	300	°C	-	2)
使用溫度	long term	260	°C	-	
熱膨脹 (CLTE)	100-150°C, long.	4	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	3	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11357	
熱膨脹 (CLTE)	23-60°C, long.	3	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	

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