

## TECAPEEK SM GF30 natural - 型材(棒材,板材,管件)

**化學命名**  
PEEK (聚醚醚酮)

**顏色**  
米黃色 不透明

**密度**  
1.53 g/cm<sup>3</sup>

**添加物**  
玻璃纖維

- 主要特色**
- 良好的尺寸穩定性
  - 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
  - 極高的耐蠕變性

- 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	109	MPa	DIN EN ISO 527-2	1)
彈性模數 (張力測試)	1mm/min	8000	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	178	MPa	DIN EN ISO 178	2)
彈性模數 (彎曲測試)	2mm/min, 10 N	7700	MPa	DIN EN ISO 178	
衝擊強度(Charpy)		29	MPa	DIN EN ISO 179-1eA	3)
球壓式硬度		310	MPa	ISO 2039-1	4)
<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)	23-60°C, long.	3	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 11359-1;2	
熱膨脹 (CLTE)	100-150°C, long.	4	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
<b>電性特性</b>	<b>參數</b>	<b>值</b>	<b>單位</b>	<b>標準</b>	<b>註解</b>
表面電阻		10 <sup>14</sup>	Ω	-	
<b>其他特性</b>	<b>參數</b>	<b>值</b>	<b>單位</b>	<b>標準</b>	<b>註解</b>
耐熱水/鹼	+	-	-	1)	(1) + good resistance (2) - poor resistance
耐候性	-	-	-	2)	(3) Corresponding means no listing at UL (yellow card). The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory.
耐燃性(UL94)	corresponding to	V0	-	3)	

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