

# TECAPEEK SD 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**  
1.71 g/cm<sup>3</sup>

**主要特色**  
→ 靜電放電  
→ 絕佳的耐化學性

**目標產業**  
→ 半導體科技

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	91	MPa	DIN EN ISO 527-2	(1) For tensile test: specimen type 1b
彈性模數 (張力測試)	1mm/min	5800	MPa	DIN EN ISO 527-2	1) (2) For flexural test: support span 64mm, norm specimen.
斷裂伸長率	50mm/min	2	%	DIN EN ISO 527-2	(3) Specimen 10x10x10mm
抗彎強度	2mm/min, 10 N	148	MPa	DIN EN ISO 178	2) (4) For Charpy test: support span 64mm, norm specimen.
彈性模數 (彎曲測試)	2mm/min, 10 N	5600	MPa	DIN EN ISO 178	
壓縮強度	1% / 2% 5mm/min, 10 N	28 / 53	MPa	EN ISO 604	3)
衝擊強度(Charpy)	max. 7,5J	43	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	4)
蕭氏硬度	D	91		DIN EN ISO 868	
熱特性	參數	值	單位	標準	註解
玻璃轉化溫度		151	°C	DIN EN ISO 11357	1) (1) Found in public sources.
熔化溫度		341	°C	DIN EN ISO 11357	
使用溫度	short term	300	°C	DIN 53765	
使用溫度	long term	260	°C	DIN 53765	
熱膨脹 (CLTE)	23-60°C, long.	5	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	5	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	100-150°C, long.	7	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
電性特性	參數	值	單位	標準	註解
表面電阻		10 <sup>6</sup> - 10 <sup>9</sup>	Ω	DIN EN 61340-2-3	
其他特性	參數	值	單位	標準	註解
吸水率	24h / 96h (23°C)	0.02 / 0.03	%	DIN EN ISO 62	1) (1) Ø ca. 50mm, h=13mm
耐燃性(UL94)		V0		-	

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