

TECAPEEK SM 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

1.31 g/cm³

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

機械特性	參數	值	單位	標準	註解
抗拉強度	50mm/min	112	MPa	DIN EN ISO 527-2	1)
彈性模數 (張力測試)	1mm/min	4300	MPa	DIN EN ISO 527-2	
斷裂伸長率	50 mm/min	14	%	DIN EN ISO 527-2	
抗彎強度	2mm/min, 10 N	159	MPa	DIN EN ISO 178	2)
彈性模數 (彎曲測試)	2mm/min, 10 N	4200	MPa	DIN EN ISO 178	
缺口衝擊強度(Charpy)		6	kJ/m ²	DIN EN ISO 179-1eA	
球壓式硬度		237	MPa	ISO 2039-1	3)
熱特性	參數	值	單位	標準	註解
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.	5	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	23-100°C, long.	6	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
熱膨脹 (CLTE)	100-150°C, long.	6	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	

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