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/cm^3

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)	(1) For tensile test: specimen type 1b (2) For flexural test: support span 64mm, norm specimen. (3) Specimen in 4mm thickness
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)	(1) Found in public sources. (2) Found in public sources. Individual testing regarding application conditions is mandatory.
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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